

- 정밀가공, 측정장비 및 광학부품 상담 및 제작
- 광학 실험을 위한 각종 Sample Jig 제작
- Controller를 통한 Motorized Stage System 구현
- Cleanroom 대응 고정밀 Stage, Spin Coater등 맞춤형기기 제작



LEE optics is enterprise manufacturing an optical components.

Our company designed Sample jig applied in research-center, production line system and XYZstage, Rotation Stage, Tilt Stage, Vacuum Stage, Motorized Stage, Motor Controller etc. requiring of a function as you reflect that User wants.

In designs to manufacturing, supply, after service(A/S). we will do its best for a customer only for family for high quality of a product with based in a technology and the experience that were accumulated for many years.

Except this catalogue, please inquire our company when materialization the Aligner System which applied Laser Beam.

We reduce time and cost to your company, and we will do your best so as to give to help.

www.leeoptics.co.kr

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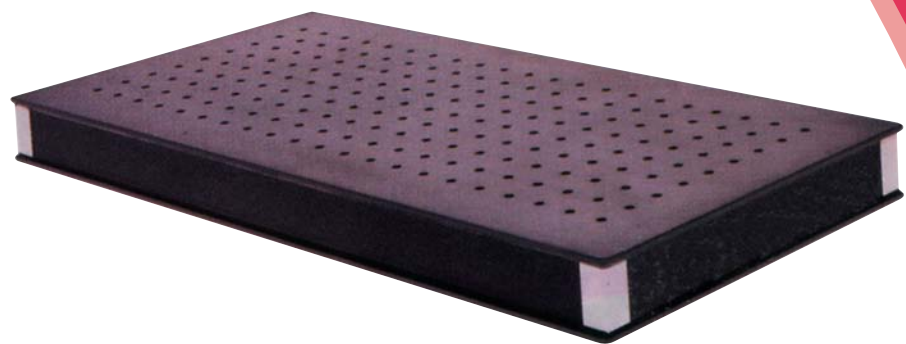
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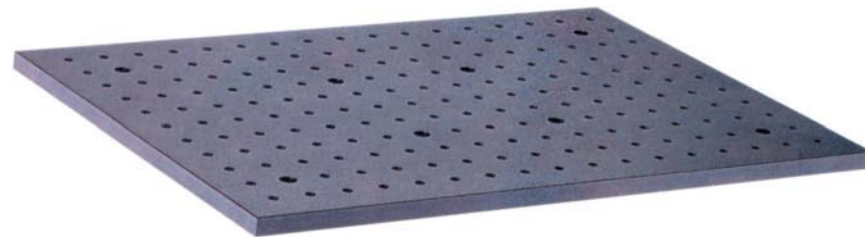
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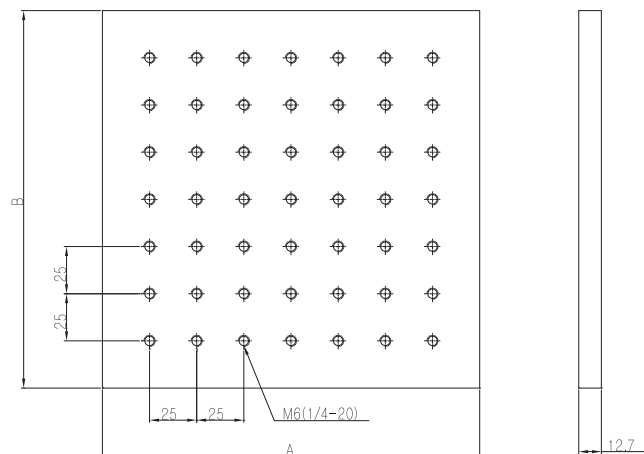
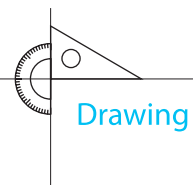
Breadboards & Base Plate

AL Breadboards
Optical Table
Sliding Base Plate
Magnetic Bases

AL Breadboards

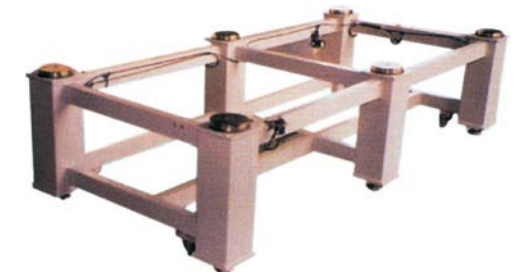
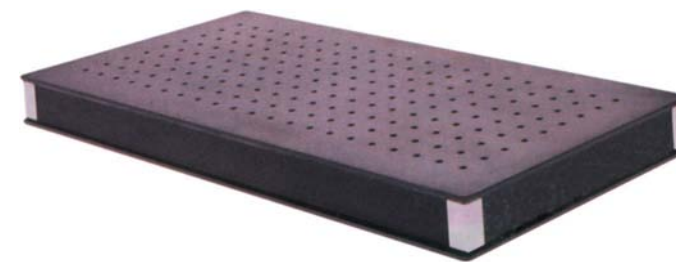


■ Support demanding research applications with this rock solid platform.



MODEL	Size of Board	BOARD TOP	MATERIAL	BOARD THICKNESS
LA0606	150 × 150	M6 / 1/4 Tap (25mm or 25.4mm)	Aluminum (Black Anodized)	12.7
LA0808	200 × 200			
LA1212	300 × 300			
LA1224	300 × 600			
LA1624	400 × 600			
LA1824	450 × 600			
LA1830	450 × 750			
LA2020	500 × 500			
LA2024	500 × 600			
LA2430	600 × 750			
LA3030	750 × 750			
LA3040	750 × 1000			
LA4040	1000 × 1000			

Optical Table



■ An optical table is an equipment used for optics experiments and engineering.

Model	Size	Model	Size
LS0606	600×600×(50/100)	LS0920	900×2000×(50/100)
LS0609	600×900×(50/100)	LS1010	1000×1000×(50/100)
LS7575	750×750×(50/100)	LS1012	1000×1200×(50/100)
LS7510	750×1000×(50/100)	LS1015	1000×1500×(50/100)
LS7512	750×1200×(50/100)	LS1020	1000×2000×(50/100)
LS7515	750×1500×(50/100)	LS1212	1200×1200×(50/100)
LS7520	750×2000×(50/100)	LS1215	1200×1500×(50/100)
LS0909	900×900×(50/100)	LS1218	1200×1800×(50/100)
LS0912	900×1200×(50/100)	LS1220	1200×2000×(50/100)
LS0915	900×1500×(50/100)	LS1224	1200×2400×(50/100)

■ Construction

: Stainless Steel Top Plastic Caps
Honeycomb Core
Steel Bottom Plate

■ Top Plate: 3.0~4.0 mm SUS430 or SUS304

■ Mounting Hole

- Metric: M6 Tapped (25×25)
- English: 1/4 Tapped, 1"

■ Supports Table

ITEM	Size
SBT-7590	750 × 900 × 750H
SBT-7512	750 × 1200 × 750H
SBT-7515	750 × 1500 × 750H

■ Isolators Table

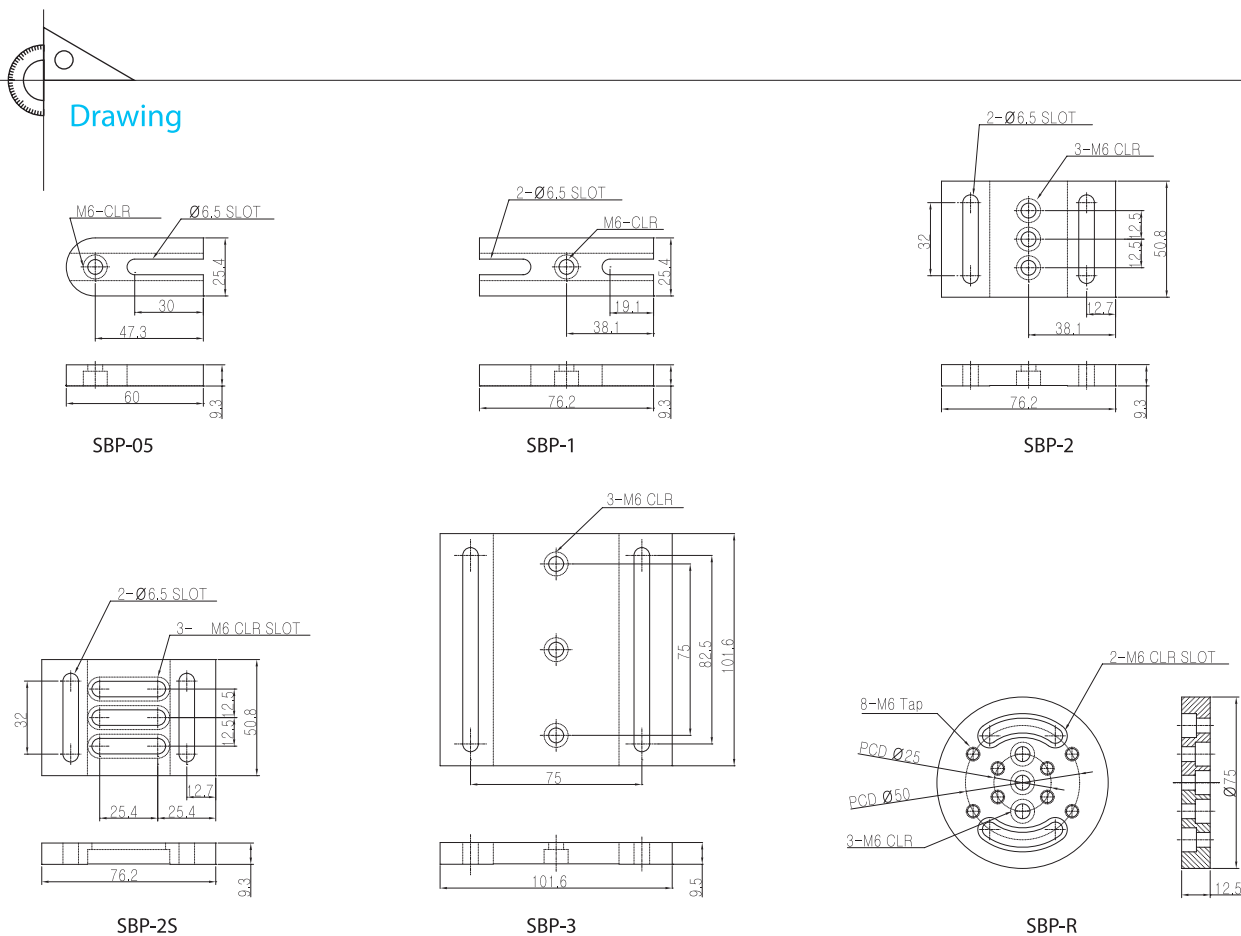
ITEM	Size
IS-7512	750 × 1200 × 750H

Sliding Base Plate



- Compatible with rail and table mounting system.
- Slotted bases offer increased positioning freedom.
- Coarse X-or Y-axis positioning.
- 70° Rotation by Ø50.8(2") bolt circle slot.
- 360° Rotation by center pin.

Drawing



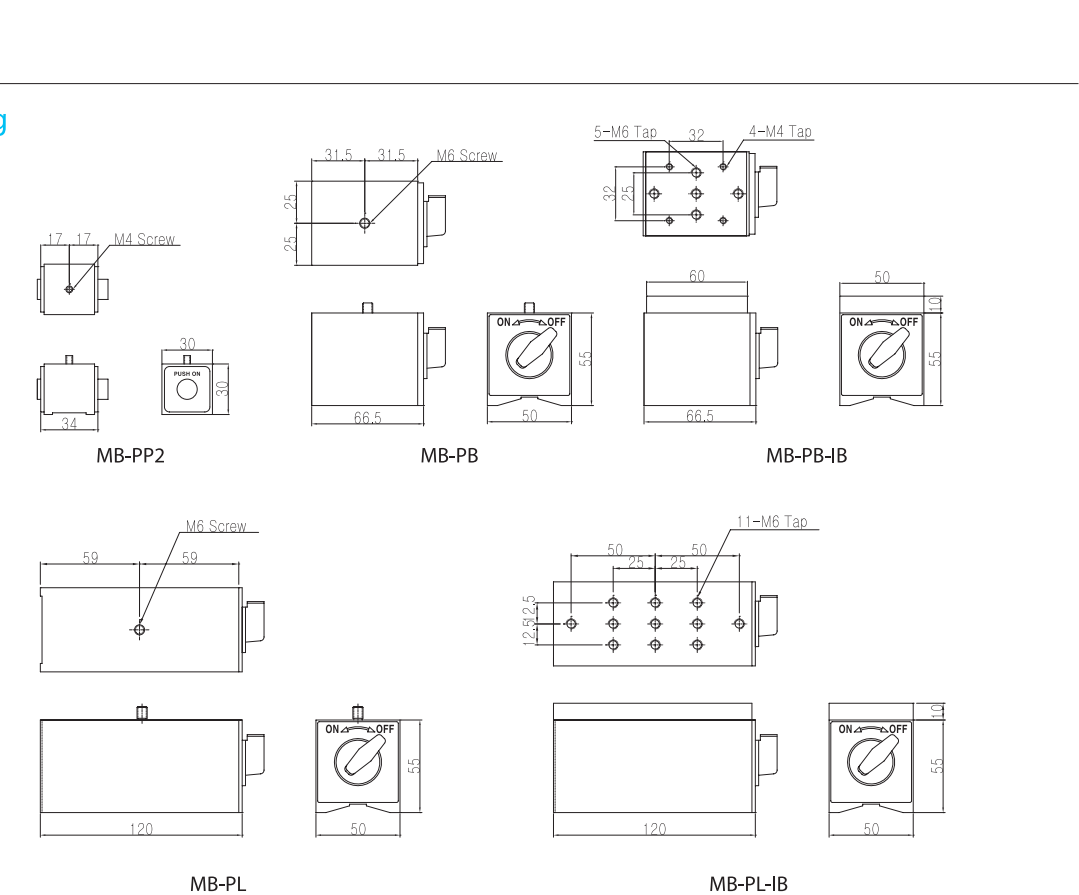
Model	Size(mm)	Material(Treatment)	Holes Pattern
SBP-05	60×25.4	Aluminum (Black Anodized)	M6-CLR Ø6.5-Slot
SBP-1	76.2×25.4		
SBP-2	76.2×50.8		
SBP-2S	76.2×50.8		
SBP-3	101.6×101.6		
SBP-R	Ø75×12.5		

Magnetic Bases



- Compact in size yet it delivers a strong magnetic force.
- A generous array of tapped mounting holes, plus decoupling from the base's magnetic field.
- Usable as a tacking base for equipment, and/or a measuring base for laser use.

Drawing



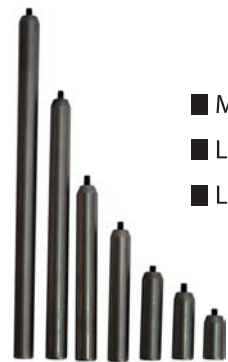
Model	MB-PP2	MB-PB	MB-PB-IB	MB-PL	MB-PL-IB
Size(mm)	Width	30	50		
	Length		66.5	65	120
	Height	34	55	55	65
Holding Power	170N(17kgf)	800N(80kgf)		1300N(130kgf)	
Holes Pattern	M4 Screw	M6 Screw	M4,M6 Tap	M6 Screw	M6Tap
Mass	0.18kg	1.0kg		2.0kg	



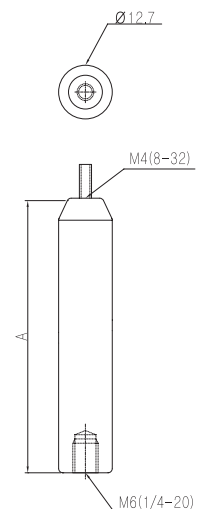
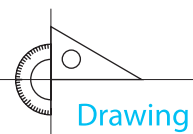
Support Posts & Clamps

Support Posts
Post Holders / New Post Holders
Post Holders
Translating Post Holders
Right Post Clamps / Swivel Post clamps
Stable Pillar Fork Clamps / Post Fork Bases
Table Clamps

Support Posts



- Making them compatible with a variety of mounts and bases.
- LSP series are precision ground 0.5 inch(12.7mm) diameter stainless steel.
- LSP series are supplied with an 8-32 (M4) stud in one end and a 1/4-20(M6) tapped hole.



LSP

Model	Size(mm)	A	Material(Treatment)	Holes Pattern
LSP-1	Ø12.7	25	Steel	M4-Tap (8-32), M6-Tap (1/4-20)
LSP-1.5		38		
LSP-2		50		
LSP-3		75		
LSP-4		100		
LSP-6		150		
LSP-8		200		
LSP-10		250		
LSP-12		300		

Post Holders / New Post Holders



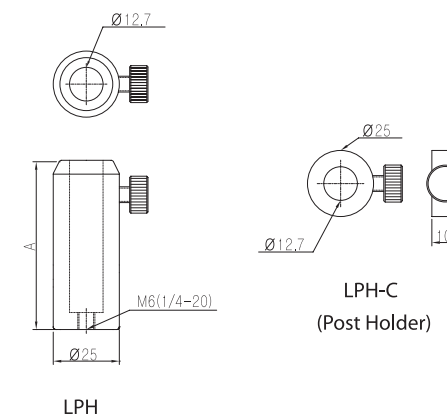
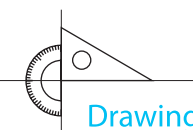
Post Holders (LPH)

- Spring loaded lock screw.
- Vacuum compatible versions available upon request.

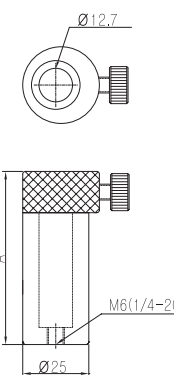


New Post Holders (NPH)

- Unique brake shoe locking.
- One-handed adjustment screw.



LPH



NPH(New Post Holder)

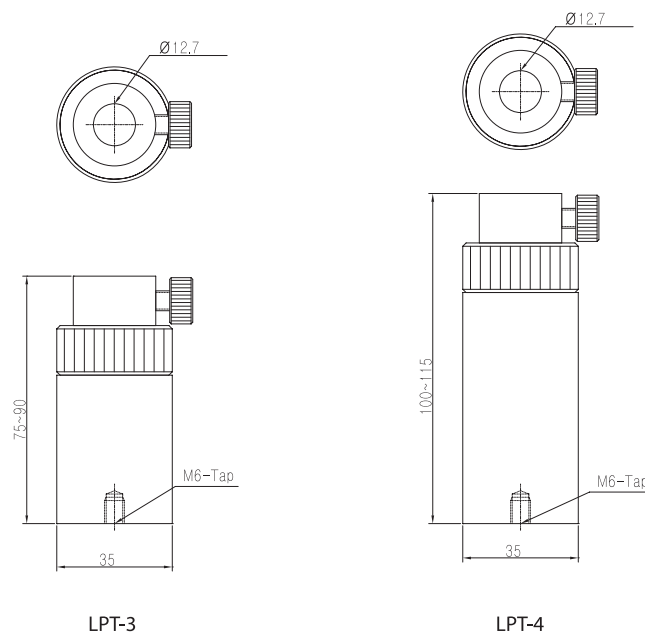
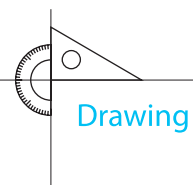
Model	LPH-1	LPH-1.5	LPH-2	LPH-3	LPH-4	LPH-6	LPH-C
Size (mm)	Ø25 × Ø12.7						
	A	25	38	50	75	100	150
Description	Post Holder						Collar
Material (Treatment)	Aluminum (Black Anodized)						
Holes Pattern	M6-Tap						

Model	LPH-1	LPH-1.5	LPH-2	LPH-3	LPH-4	LPH-6
Size (mm)	Ø12.7					
	A	25	38	50	75	100
Material (Treatment)	Aluminum (Black Anodized)					
Holes Pattern	M4-Tap					

Translating Post Holders



- LPT series, the height of mounted optics can be coarsely set.
- Precisely controlled over a range of 15mm.

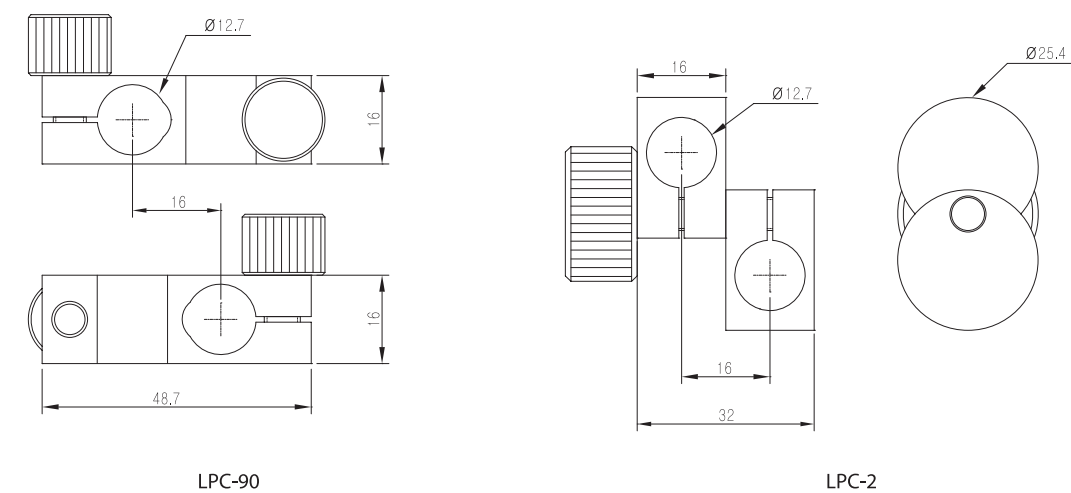
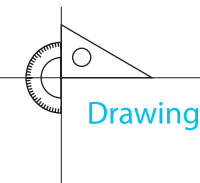


Model	LPT-3	LPT-4
Size (mm)	Ø12.7	
Travel Range	75 ~ 90	100 ~ 115
Material (Treatment)	Aluminum (Black Anodized)	
Holes Pattern	M6-Tap	

Right Post Clamps / Swivel Post clamps



- Split clamp locking.
- Perpendicular or infinite orientation.
- The clamping screws permit fast, secure post mounting with only moderate finger pressure.
- LPC series mount posts, respectively, at 90°.

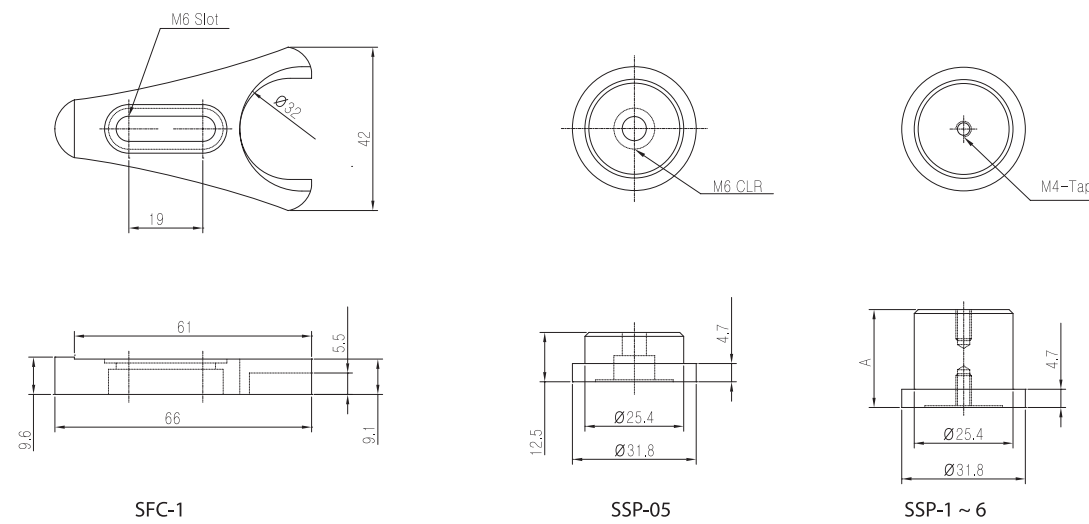
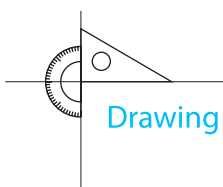


MODEL	LPC-90	LPC-2
Dimension	Ø12.7	
Description	Cross-post Clamp	Universal Clamp
Material (Treatment)	Aluminum (Black Anodized)	

Stable Pillar Fork Clamps / Post Fork Bases



- Secure, patented clamping.
- Adjust and lock rotation independent of translation.
- Post clamping and positioning.
- Optical component mounting.

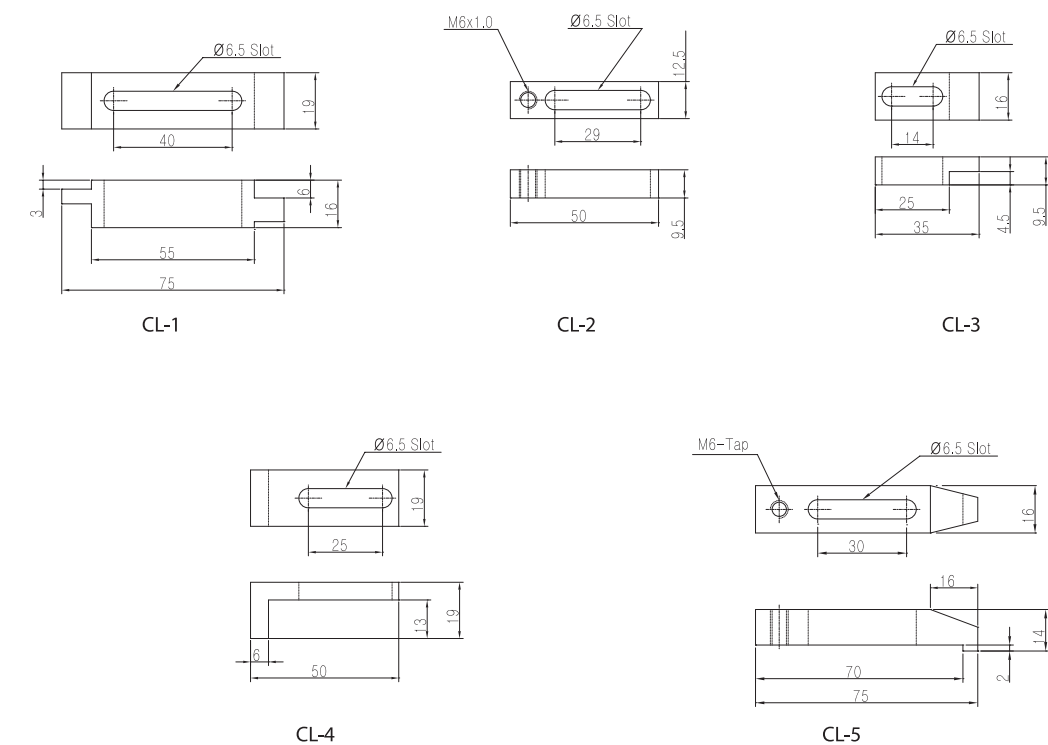
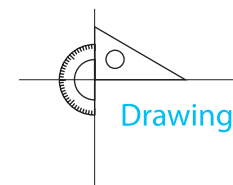


Model	SSP-05	SSP-1	SSP-1.5	SSP-2	SSP-3	SSP-4	SSP-6	SFC-1
Size	Ø25.4xØ31.8							66x42
A	12.5	25	38	50	75	100	150	
Description	Post Fork Base							Fork Clamp
Material(Treatment)	Aluminum (Black Anodized) / Steel							
Holes Pattern	M6- CLR	M4-Tap						M6-CLR Slot

Table Clamps



- Securely clamp components to any tapped surface.



Model	CL-1	CL-2	CL-3	CL-4	CL-5
Dimension	75 × 19	50 × 12.5	35 × 16	50 × 19	75 × 16
Description	Table Clamp				
Material (Treatment)	Aluminum (Black Anodized)				
Holes Pattern	Ø6.5 Slot				



Assembly Hardware

Ball Toll Kit / Ball Driver / Spanner Wrench
Screw Kits
Thread Adapters Screw

Ball Toll Kit / Ball Drivers / Spanner Wrench



- High torque steel with a hardened ball tip.
- Stable ball driver holder.

Ball Toll Kit / Ball Drivers / Spanner Wrench

- BTK-6M (Metric)
- NTK-7 (Inch)
- BD-KIT/M (Metric) 1.5, 2, 2.5, 3, 4, 5 mm
- BD-KIT (Inch) 0.05, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32 inch

Screw Kits



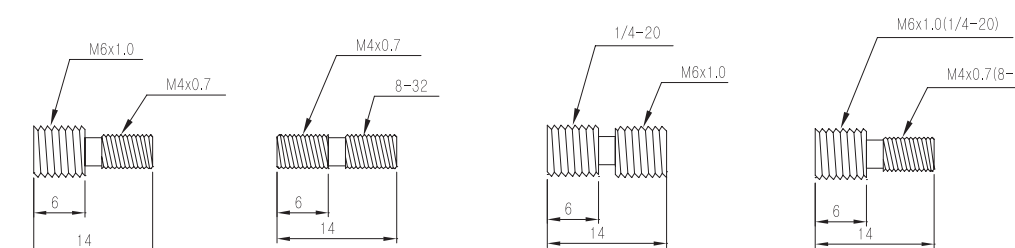
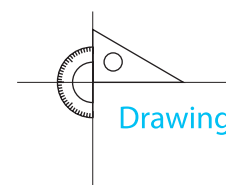
- Convenient storage box keeps screws in one location.

	SLT-M4 (SST-M4)	SLT-M6 (SST-M6)	SLT-8-32 (SST-8-32)	SLT-1/4 (SST-1/4)
Socket Head Cap Screws (quantity and length)	30 × 6 mm	30 × 8 mm	30 × 0.25 inch	30 × 0.375 inch
	30 × 8 mm	30 × 10 mm	30 × 0.312 inch	30 × 0.5 inch
	30 × 10 mm	30 × 12 mm	30 × 0.375 inch	30 × 0.625 inch
	30 × 12 mm	30 × 16 mm	30 × 0.5 inch	30 × 0.75 inch
	30 × 16 mm	30 × 20 mm	30 × 0.625 inch	30 × 1.0 inch
	30 × 20 mm	12 × 25 mm	20 × 0.75 inch	12 × 1.0 inch
	30 × 25 mm	12 × 30 mm	20 × 1.0 inch	12 × 1.25 inch
	10 × 45 mm	12 × 35 mm	8 × 1.75 inch	8 × 1.5 inch
Setscrews (Hex) (quantity and length)	30 × 12 mm	30 × 15 mm	30 × 1/2 inch	30 × 1/2 inch
	30 × 16 mm	20 × 20 mm	30 × 5/8 inch	
Nuts	12	30	30	30
Washers	50	50	50	50

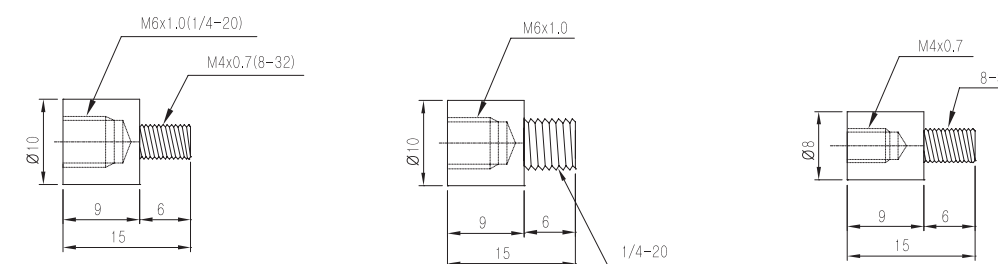
Thread Adapters screw



- Use to assemble two competenes with different tapped holes.
- Ideal for connecting LSP posts.



TPS-1/TPS-2/TPS-3/TPS-4/TPS-5



TAS-1/ TAS-2/ TAS-3/ TAS-4/ TAS-5

Model	TPS-1	TPS-2	TPS-3	TPS-4	TPS-5
Dimension	M6 × M4	M4 × 8 - 32	1/4 - 20 × M6	M6 × 8 - 32	1/4 - 20 × M4

MODEL	TAS-1	TAS-2	TAS-3	TAS-4	TAS-5
Dimension	M6 × M4	M4 × 8 - 32	1/4 - 20 × M6	M6 × 8 - 32	1/4 - 20 × M4



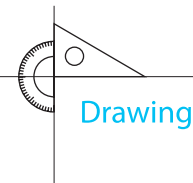
Rails & Carriers

Sided Micro Rails / Carriers
Wide Optical Rails / Carriers
Dovetail Optical Rails / Carriers
Four-Side Optical Rails / Carriers

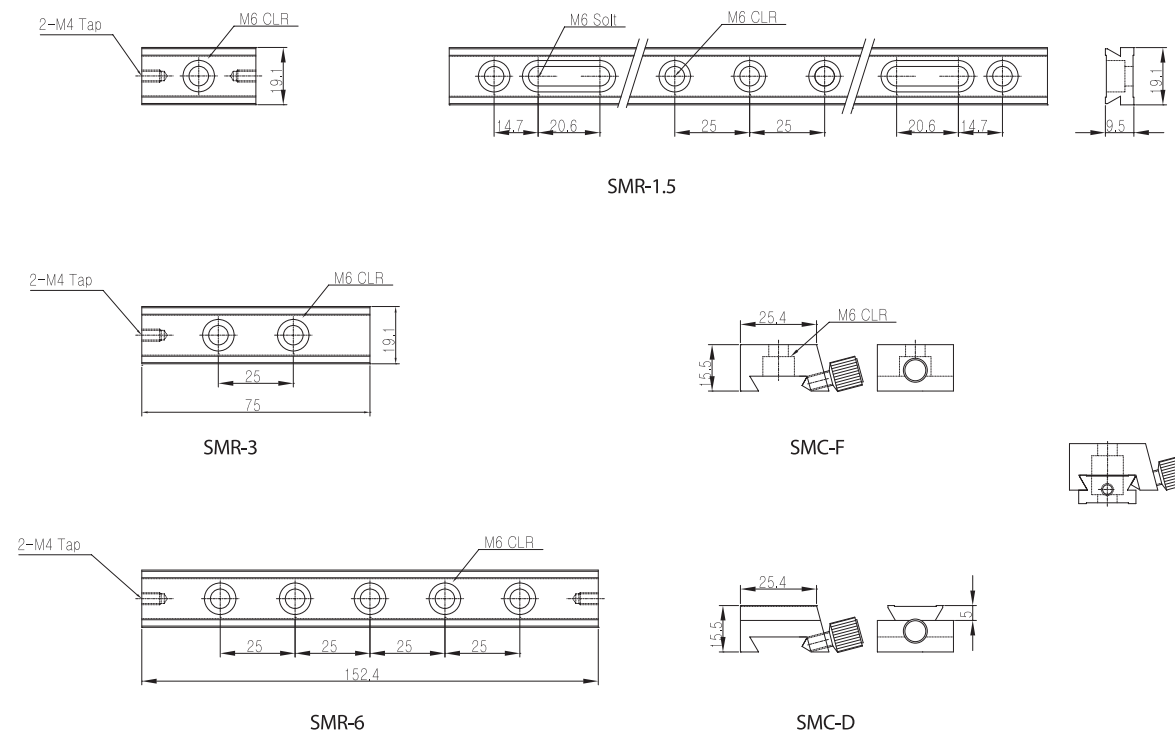
Side Micro Rails / Carriers



- Low profile design.
- Smooth coarse positioning.
- Precision aluminum construction.
- Precision machined on all surfaces.



Drawing



■ Rails Series

Model	SMR-1.5	SMR-3	SMR-6	SMR-12	SMR-18	SMR-24
Size (mm)	38×19.1	75×19.1	150×19.1	300×19.1	450×19.1	600×19.1
Material (Treatment)	Aluminum (Black Anodized)					
Holes Pattern	M6-CLR		M6-CLR Slot			

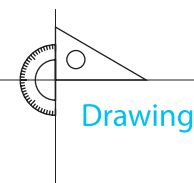
■ Carriers Series

Model	SMC-F	SMC-D
Size (mm)	25.4×29.5	25.4×29.5
Material (Treatment)	Aluminum (Black Anodized)	
Description	Flat Carrier	Dovetail Carrier
Holes Pattern	M6-CLR	

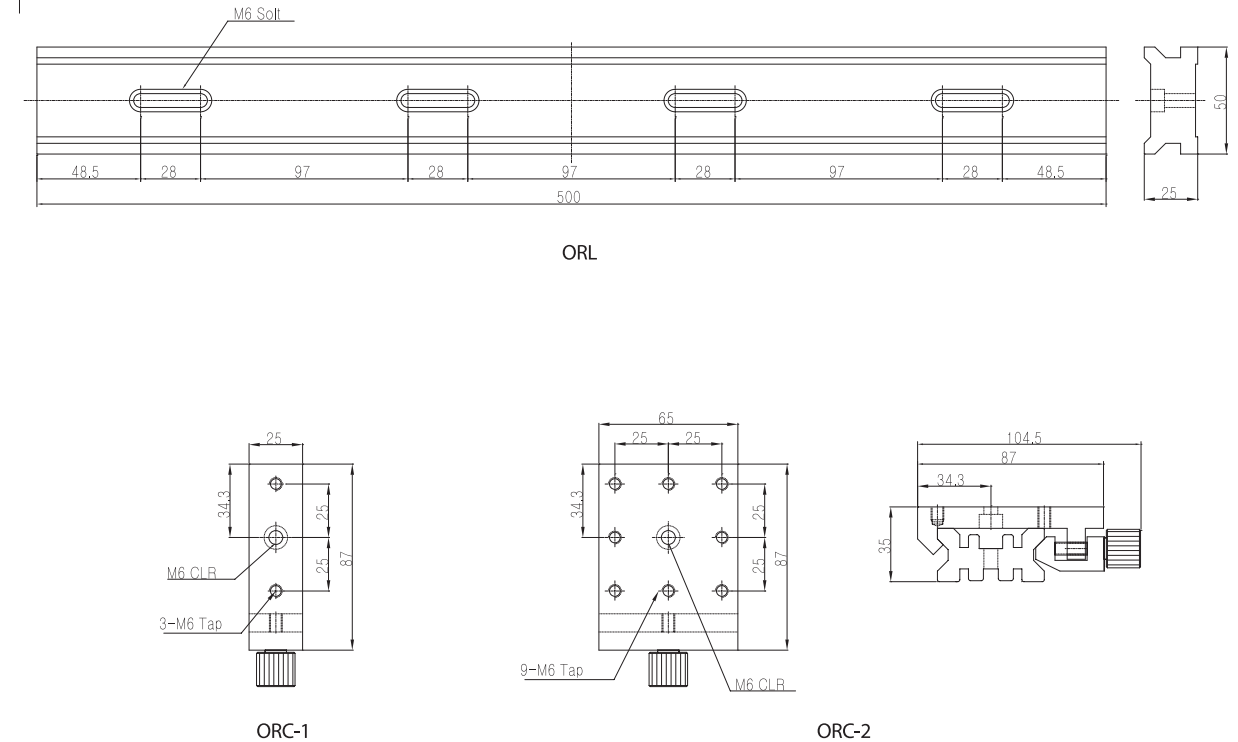
Wide Optical Rails / Carriers



- Low profile design.
- A 1mm division ruler indication.
- Any angle positioning on the optical table.
- Components can mount on either side.
- Multi-axis positioning for post-mounted components.



Drawing



■ Rails Series

Model	ORL-25	ORL-50	ORL-75	ORL-100
Size (mm)	250×50	500×50	750×50	1000×50
Material (Treatment)	Aluminum (Black Anodized)			
Holes Pattern	M6-CLR Slot			

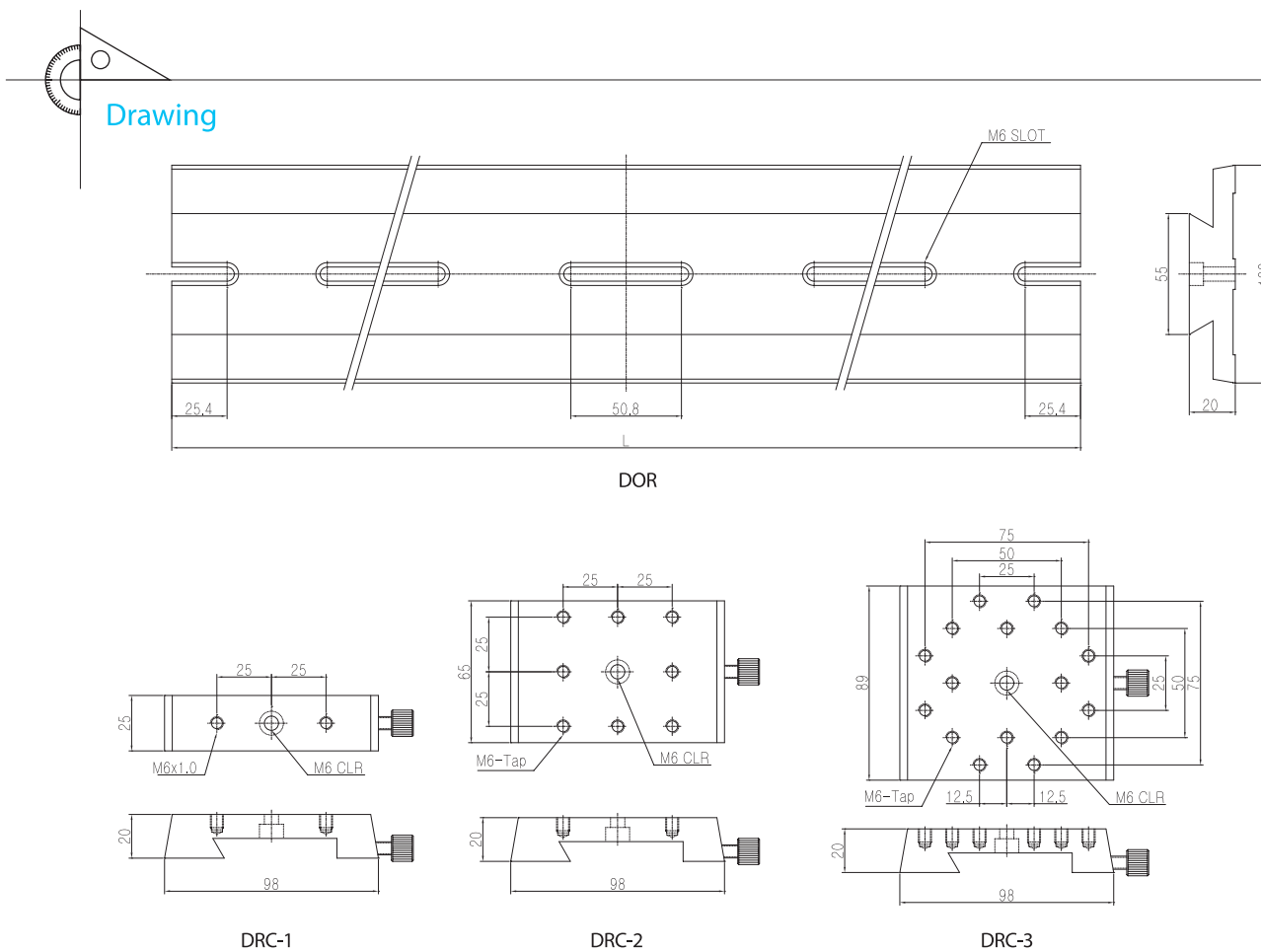
■ Carriers Series

Model	ORC-1	ORC-2
Size (mm)	25×87	65×87
Material (Treatment)	Aluminum (Black Anodized)	
Holes Pattern	M6-Tap, CLR	

Dovetail Optical Rails / Carriers



- Rail design for conserves table space.
- Rails mount at any direction on English or metric optical tables.
- Novel indexing block for excellent positioning repeatability.



■ Rails Series

Model	DOR-6	DOR-12	DOR-24	DOR-36
Size (mm)	165×100	315×100	615×100	925×100
Material (Treatment)	Aluminum (Black Anodized)			
Holes Pattern	M6-CLR Slot			

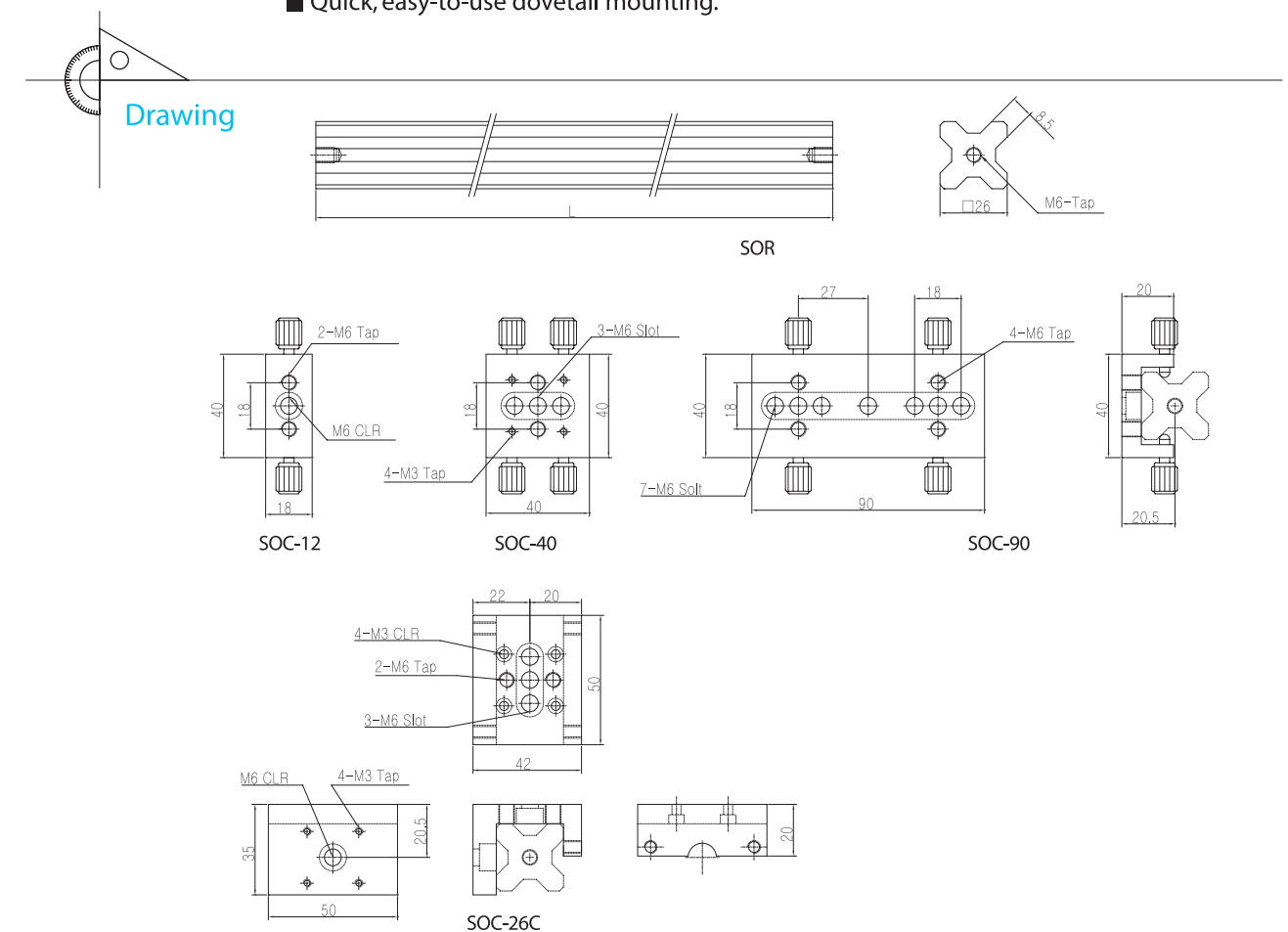
■ Carriers Series

Model	DRC-1	DRC-2	DRC-3
Size (mm)	25×98	65×98	89×98
Material (Treatment)	Aluminum (Black Anodized)		
Holes Pattern	M6-Tap, CLR		

Four-Side Optical Rails / Carriers



- Mount to four sides.
- Wide range of compatible components.
- Quick, easy-to-use dovetail mounting.
- Four carrier lengths.
- Carrier for right-angle rail construction.



■ Rails Series

Model	SOR-125	SOR-190	SOR-255	SOR-350	SOR-510
Size (mm)	125×26	190×26	255×26	350×26	510×26
Material (Treatment)	Aluminum (White Anodized)				
Holes Pattern	M6-Tap				

■ Carriers Series

Model	SOC-12	SOC-40	SOC-90	SOC-26C
Size (mm)	18×40	40×40	90×40	50×42
Material (Treatment)	Aluminum (White Anodized)			
Holes Pattern	M6-Tap, CLR	M6-Tap, CLR M3 Tap	M6-Tap, CLR	M6-Tap, CLR M3-Tap, CLR



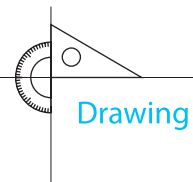
Lens & Cylindrical Lens Holders

Lens Holders
Lens Mounts
Self -Centering Lens Mounts
Adjustable Radius Chucks
Adjustable Cylindrical Lens Holders
Adjustable Lens Holders
Variable Lens Holders
V-Block

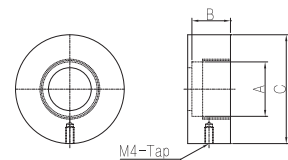
Lens Holders



- Spring-loaded detent on lens holder allows fast optic change.
- Post or laser block mountable.

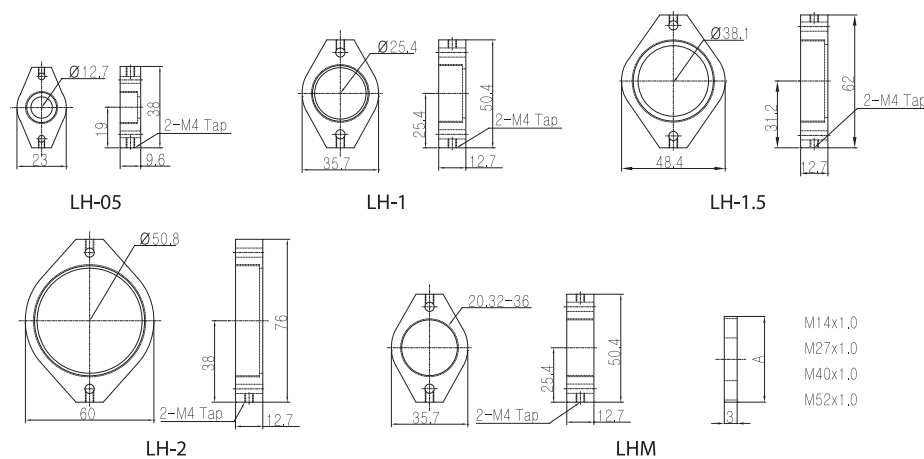


Drawing



LHR-05/LHR-1/LHR-1.5/LHR-2/LHR-3

Model		LHR-0.5	LHR-1	LHR-1.5	LHR-2	LHR-3
Optic Diameter	A	Ø12.7	Ø25.4	Ø38.1	Ø50.8	Ø76.2
Size (mm)	B	13	15	15	15	22
	C	Ø25.4	Ø45	Ø60	Ø70	Ø90
Material (Treatment)		Aluminum (Black Anodized)				
Holes Pattern		M4-Tap				

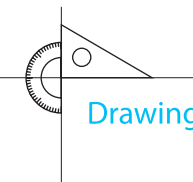


Model		LH-0.5	LH-1	LH-1.5	LH-2	LHM
Optic Diameter	A	Ø12.7	Ø25.4	Ø38.1	Ø50.8	Microscope Objective
Size (mm)		23x38	35.7x50.4	48.4x62	60x76	35.7x50.4
Material (Treatment)		Aluminum (Black Anodized)				
Holes Pattern		M4-Tap				

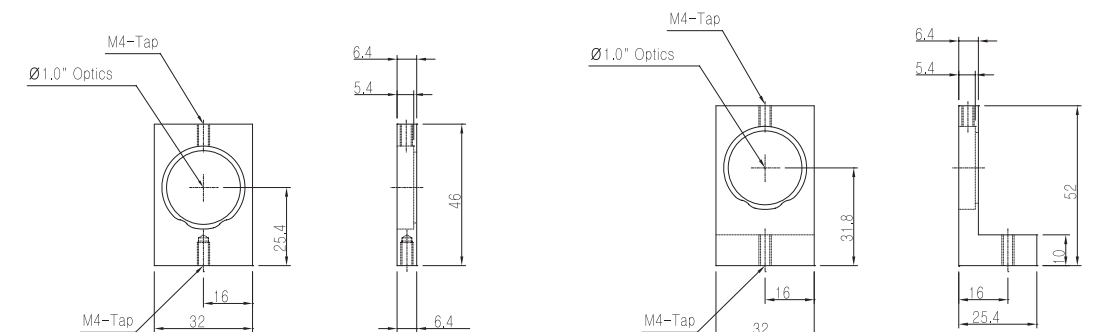
Lens Mounts



- Simple and convenient fixed lens mounting.
- Post or face mountable.

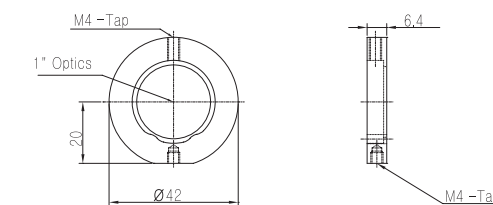


Drawing



LM-1

LM-1A



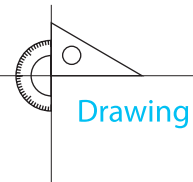
LM-R

Model	LM-1	LM-1A	LM-R
Optic Diameter	Ø25.4		
Slize (mm)	32x6.4x46	32x32x52	Ø42x6.4x41
Material (Treatment)	Aluminum (Black Anodized)		
Holds Pattern (Top)	M4-Tap		
Holes Pattern (Bottom)	M4-Tap		

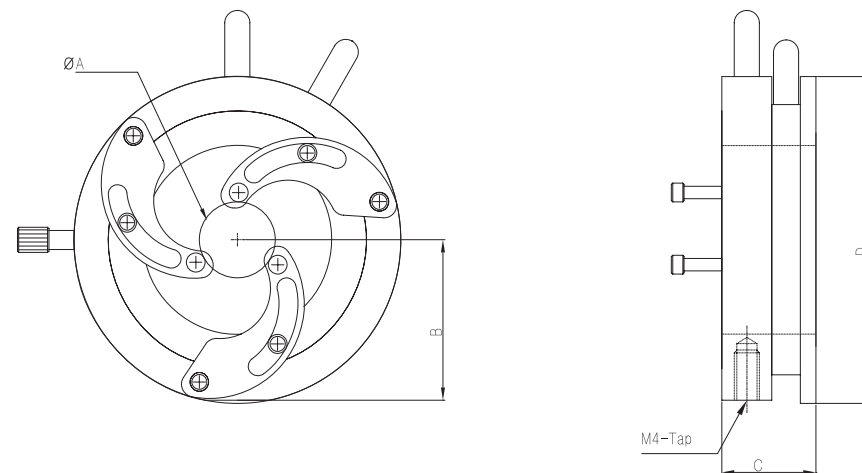
Self-Centering Lens Mounts



- Maintains optical axis while holding various diameter lenses.
- SCL series reliably center and securely hold round optics and cylindrical objects.



Drawing



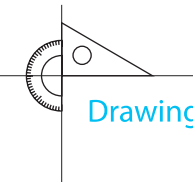
SCL-1 / SCL-2

Model		SCL-1	SCL-2
Optic Diameter	A	Ø6 ~ Ø27	Ø20 ~ Ø58
Size(mm)	B	255	49.5
	C	15	18.5
	D	Ø52	Ø99
Material (Treatment)		Aluminum (Black Anodized)	
Holes Pattern		M4-Tap	

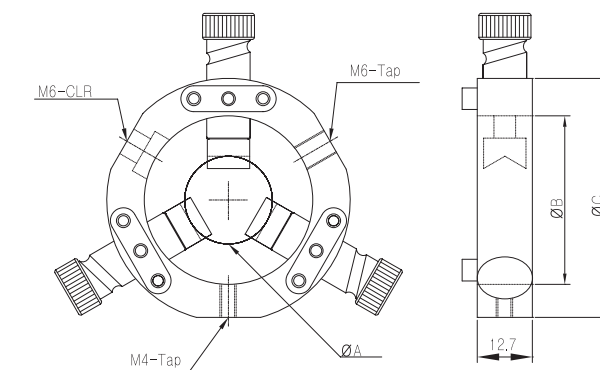
Adjustable Radius Chucks



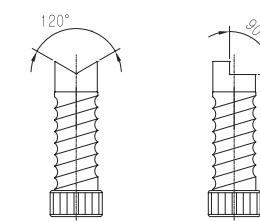
- Compliantly-loaded, ball-indexed threaded support rods.
- Rigid, individually adjustable support rods.
- Provides fine centering adjustment.
- Positive optic loading without risk of damage.



Drawing



ARC-1 / ARC-2 / ARC-3

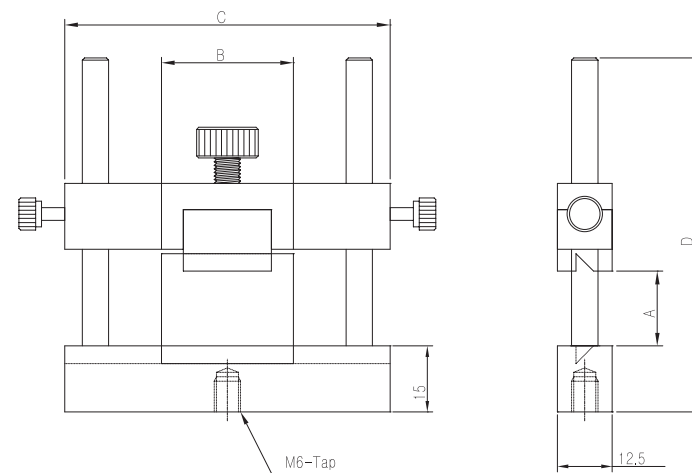
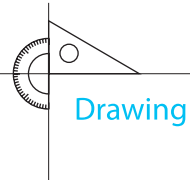


Model		ARC-1	ARC-2	ARC-3
Optic Diameter	A	Ø3 ~ Ø38	Ø8 ~ Ø57	Ø48 ~ Ø82
Size (mm)	B	Ø39	Ø58	Ø83
	C	Ø56	Ø74	Ø100
Material (Treatment)		Aluminum (Black Anodized)		
Holes Pattern		M4-Tap, M6-Tap, CLR		

Adjustable Cylindrical Lens Holders



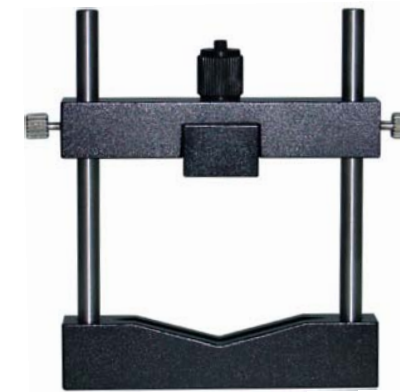
- Bar-type design.
- Cylindrical lenses mounting.
- Black anodised aluminum.



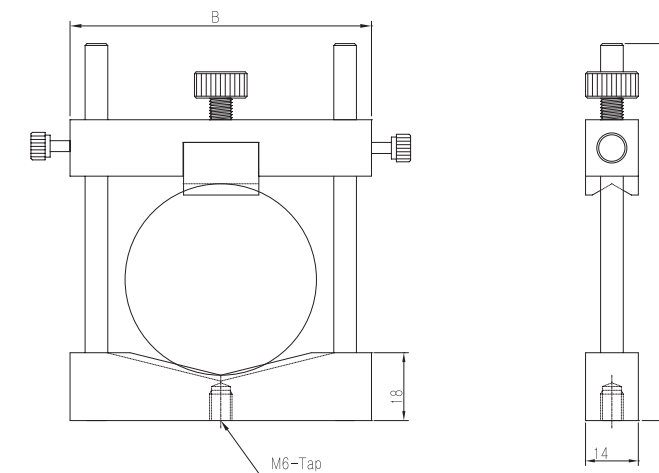
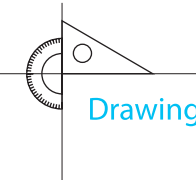
CLH-1 / CLH-2 / CLH-3 / CLH-4

Model		CLH-1	CLH-2	CLH-3	CLH-4
Lens Dimension (mm)	A	25	60	80	110
	B	30	65	85	115
Size (mm)	C	65	95	120	150
	D	80	110	140	170
Description	Cylindrical Lens Holders				
Material (Treatment)	Aluminum (Black Anodized)				
Holes Pattern	M6-Tap				

Adjustable Lens Holders



- Optics diameter from Ø5 to Ø152.4
- Simple operation.
- V-Groove design firmly secures optics.



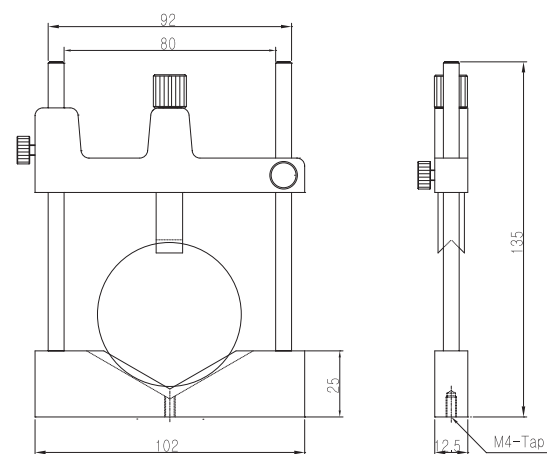
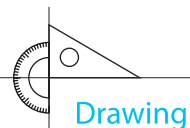
HLA-1 / HLA-2 / HLA-3 / HLA-4

Model		HLA-1	HLA-2	HLA-3	HLA-4
Optic Dimensions (mm)	A	Ø5 ~ Ø26	Ø10 ~ Ø60	Ø20~Ø101.6	Ø60~Ø152.4
	B	46	86	134	200
Size (mm)	C	65	98	140	200
Description	Adjustable Lens Holders				
Material (Treatment)	Aluminum (Black Anodized)				
Holes Pattern	M4-Tap	M6-Tap			

Variable Lens Holders



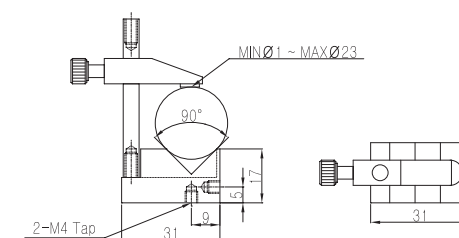
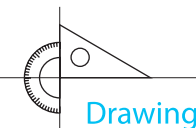
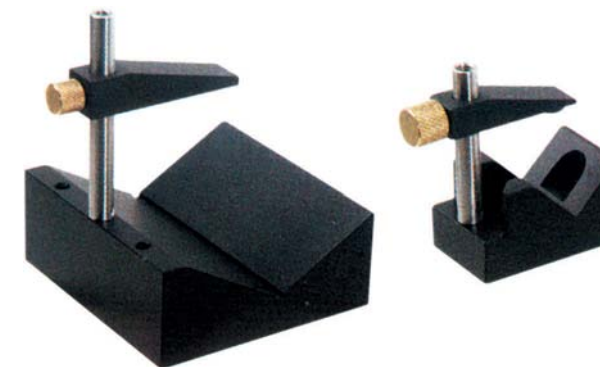
- Kinematic V-groove lens construction.
- Holds thin lenses or cylindrical-shaped lens barrels.



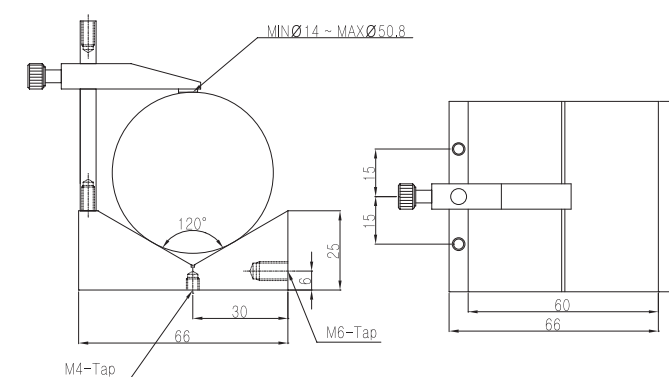
HLV-3

Model	HLV-3
Optic Diameter	Ø12.7 ~ Ø76.2
Size (mm)	102 × 135
Description	Variable Lens Holders
Material (Treatment)	Aluminum (Black Anodized)
Holes Pattern	M4-Tap

V-Block



HVB-1



HVB-3

Model	HVB-1	HVB-3
Optic Diameter	Ø1 ~ Ø23	Ø14 ~ Ø50.8
Size (mm)	31 × 19	66 × 60
Material (Treatment)	Aluminum (Black Anodized)	
Holes Pattern	M4-Tap	



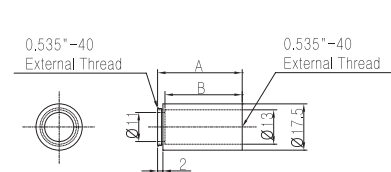
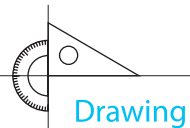
Cage System

Stackable Lens Tubes
Cage System
Manual Gonio Cage
30mm Cage System

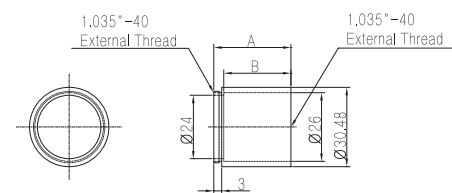
Stackable Lens Tubes



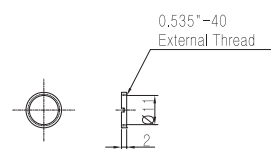
- Stackable design.
- Building complex optical assemblies.
- Use of multiple optics.



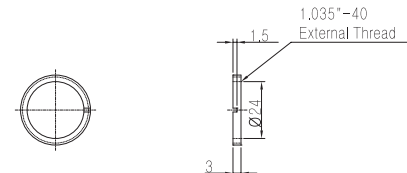
SLT05



SLT1



SLT05-R



SLT1-R

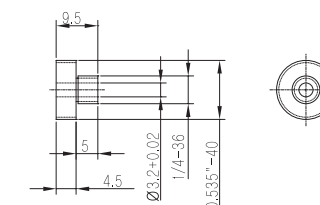
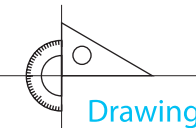
Model		SLT05-03	SLT05-05	SLT05-1	SLT05-R
Size (mm)	A	11	16	29	Retaining Ring
	B	7	12	25	
Description		0.5" Lens Tube			
Material (Treatment)		Aluminum (Black Anodized)			

Model		SLT1-03	SLT1-05	SLT1-1	SLT1-2	SLT1-3	SLT1-R
Size (mm)	A	11	16	29	54	80	Retaining Ring
	B	7	12	25	50	76	
Description		1" Lens Tube					
Material (Treatment)		Aluminum (Black Anodized)					

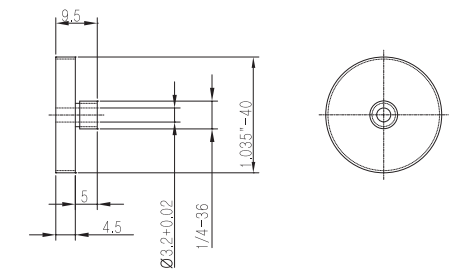
Lens Tubes Fiber Adapters



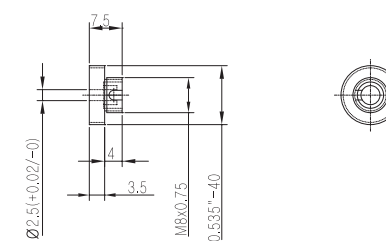
- Compatible with SLT series (Stackable Lens Tube).
- Connect fiber to be integrated into the SLT series.



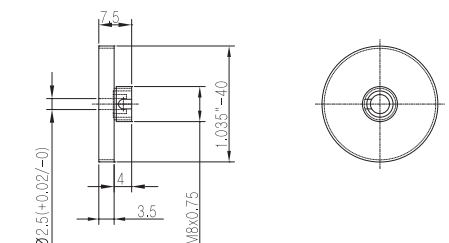
SLT05-SMA



SLT1-SMA



SLT05-FC



SLT1-FC

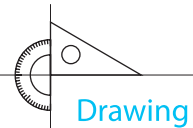
Model	SLT05-SMA	SLT1-SMA	SLT05-FC	SLT1-FC
Size(mm)	13.45×9.5	26.45×9.5	13.45×7.5	26.45×7.5
Description	Fiber Adapter			
Material(Treatment)	Aluminum (Black Anodized)			

Cage System



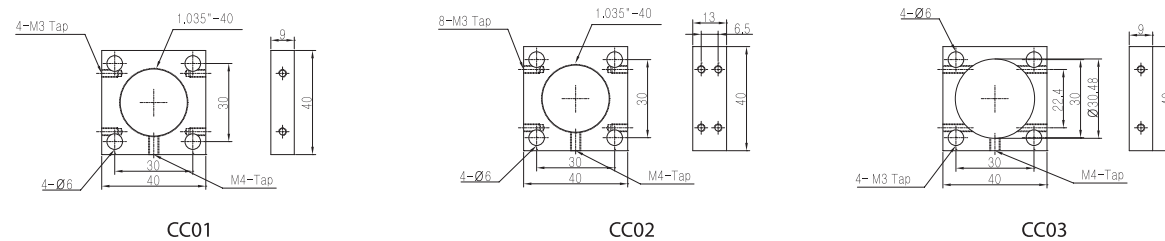
Cage Cube

- Compatible with the SLT-series Lens Tubes.



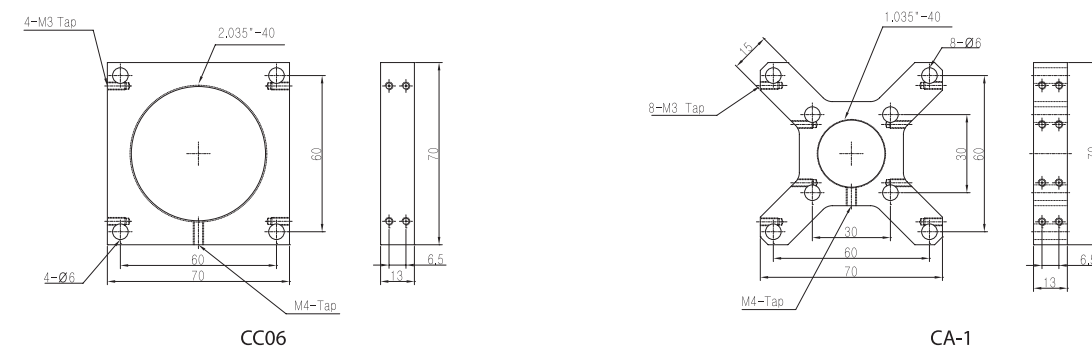
Drawing

30mm Cage Cube



Model	CC01	CC02	CC03
Size(mm)	40 × 40		
Description	1" Threaded Cage Plate		Ø30.48 Aperture Cage Cube
Holes Pattern	M3, M4 Tap		
Material(Treatment)	Aluminum (Black Anodized)		

60mm Cage Cube



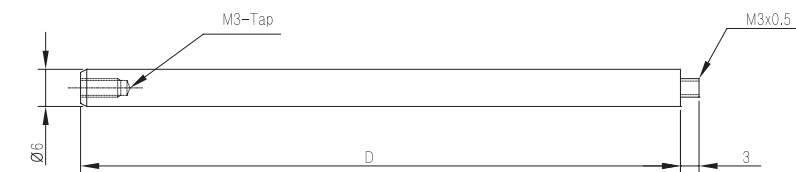
Model	CC06	CA-1
Size(mm)	70 × 70	
Description	2" Threaded Cage Plate	30mm/60mm Cage Adapter
Holes Pattern	M3, M4 Tap	
Material(Treatment)	Aluminum (Black Anodized)	

Cage System



Cage Assembly Rods

- Array of cage plates and lens tubes.

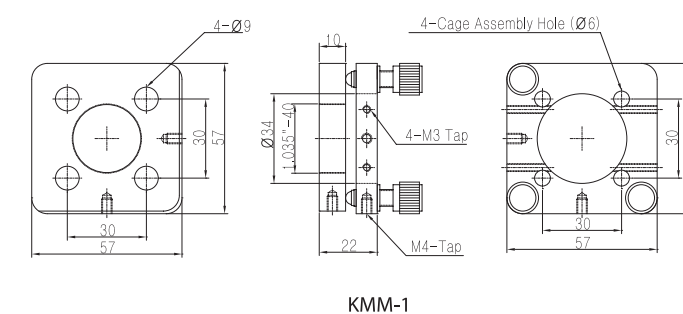


CR

Model	CR05	CR1	CR1.5	CR2	CR3	CR4	CR6	CR8
Size(mm)	Ø6×13	Ø6×25	Ø6×38	Ø6×51	Ø6×76	Ø6×102	Ø6×152	Ø6×203
Description	Steel							
Holes Pattern	M3 - Tap							

Cage Kinematic Mirror Mount

- Precision 80 TPI adjustment Screw.
- Optional locking mechanism.
- Compatible with the Cage System (30mm Cage Cube, Cage Assembly Rod), Stackable Lens Tube (SLT1).

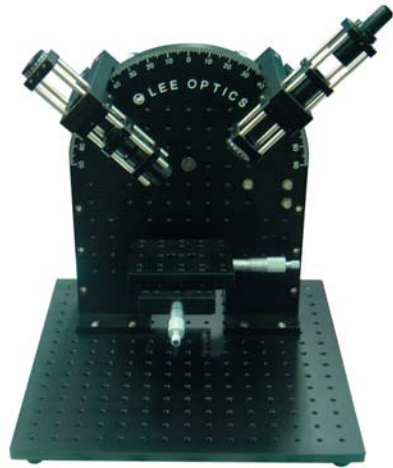


KMM-1

Model	KMM-1
Aperture Diameter	Ø30.48
Size (mm)	57×57
Adjustment Range	±4°
Adjustment Drive	3-Axis 80-Pitch Screw
Material(Treatment)	Aluminum (Black Anodized)
Holes Pattern	M4-Tap

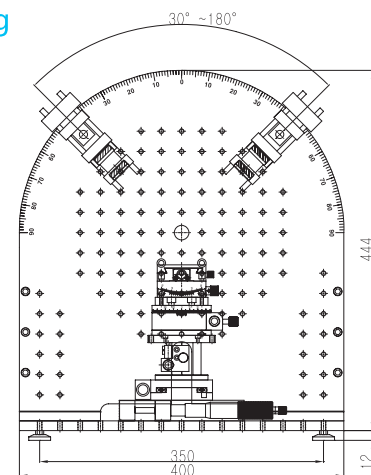
- 상기 모델은 Cage System (30mm Cage Cube / Cage Assembly Rod), Stackable Lens Tube (SLT1)와 호환이 가능한 모델입니다.

Manual Gonio Cage

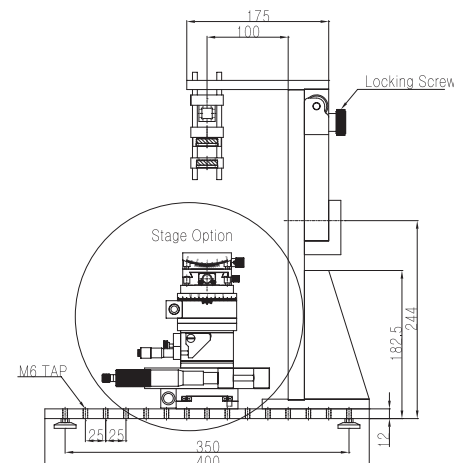


- Adjustment Multiple angle cage (30°~180°)
 - Reflectivity, Transmissivity, Vision ...
→ Devise so as to be able to make applied experiment.
 - Assembly → (Lens, Polarizer, Detector, Fiber Connector) Mount
- * 사용자가 쉽게 응용 실험을 할 수 있게 고안된 제품으로 30mm Cage, Lens Tube와 입,출력 소스를 쉽게 대응할 수 있으며 다층박막 측정, 물성분석 및 연구에 적합

Drawing

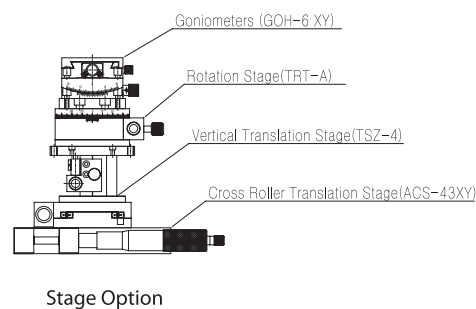


MGC-400



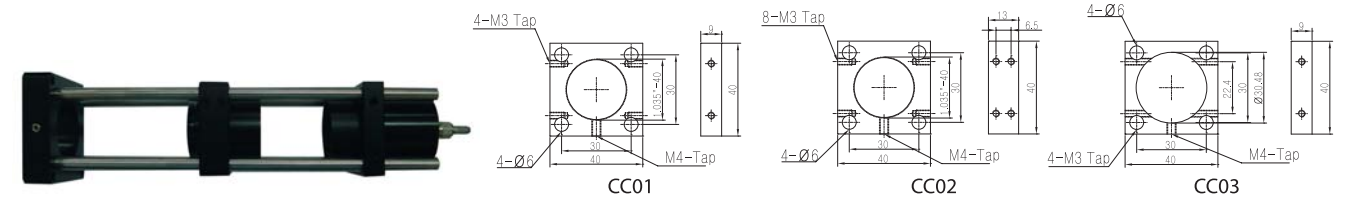
MGC-400

Model	MGC-400
Size	400 × 400 × 444
Rotation	30°~180°
Radial Of Rotation	R200
Material(Treatment)	Aluminium(Black Anodized)
Holes Pattern	M6 TAP
30mm Cage System	30 mm Cage Cube (CC01) - 4ea
	30 mm Cage Cube (CC02) - 4ea
	30 mm Cage Cube (CC03) - 4ea
	Cage Assembly Rod (CR8) - 8ea
	Stackable Lens Tube (SLT05-03, 05) - 4ea
	Stackable Lens Tube (SLT05-03, 05, 1) - 4ea
	Retainng Ring (SLT05-R) - 8ea
	Retainng Ring (SLT1-R) - 12ea
	Lens Tube Fiber Adapter (SLT05-SMA, SLT1-SMA) - 1ea
	Lens Tube Fiber Adapter (SLT05-FC, SLT1-FC) - 1ea

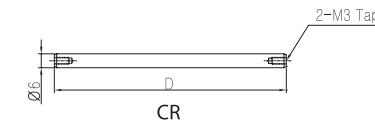


Stage Option

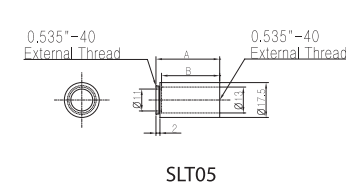
30mm Cage System



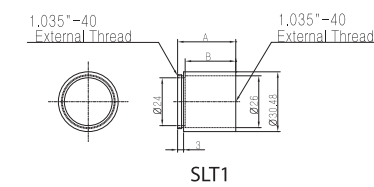
Model	CC01	CC02	CC03	
Size(mm)	40 × 40			
Description	1" Threaded Cage Plate	Ø30.48 Aperture Cage Cube		
Holes Pattern	M3, M4 Tap			
Material(Treatment)	Aluminum (Black Anodized)			



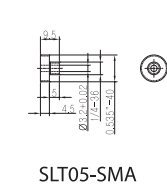
Model	CR05	CR1	CR1.5	CR2	CR3	CR4	CR6	CR8
Size(mm)	Ø6×13	Ø6×25	Ø6×38	Ø6×51	Ø6×76	Ø6×102	Ø6×152	Ø6×203
Material(Treatment)	Steel							
Holes Pattern	M3 - Tap							



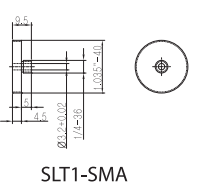
SLT05



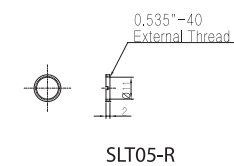
SLT1



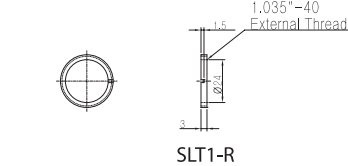
SLT05-SMA



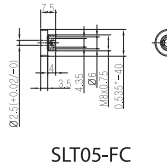
SLT1-SMA



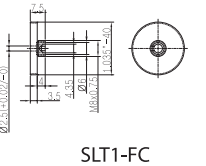
SLT05-R



SLT1-R



SLT05-FC



SLT1-FC

Model	SLT05-03	SLT05-05	SLT05-1	SLT05-R
Size(mm)	A	11	16	29
	B	7	12	25
Description	0.5" Lens Tube			
Material(Treatment)	Aluminum (Black Anodized)			

Retaining Ring

Model	SLT1-03	SLT1-05	SLT1-1	SLT1-2	SLT1-3	SLT1-R
Size(mm)	A	11	16	29	54	80
	B	7	12	25	50	76
Description	1" Lens Tube					
Material(Treatment)	Aluminum (Black Anodized)					

Retaining Ring

Model	SLT05-SMA	SLT1-SMA	SLT05-FC	SLT1-FC
Size(mm)	13.45×9.5	26.45×9.5	26.45×9.5	13.45×9.5
Description	Fiber Adapter			
Material(Treatment)	Aluminum (Black Anodized)			



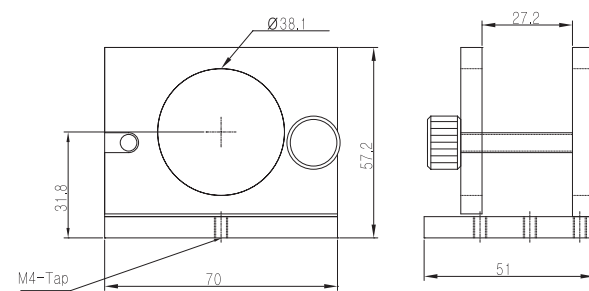
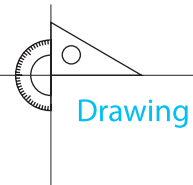
Filter Holder & Clamp

Dual Filter Holders
Filter Holders
Spring Filter Holders
Optical Filter Clamps
Filter Wheel
Flip Up Filter Holders
Flipper Mount
Flip Mount

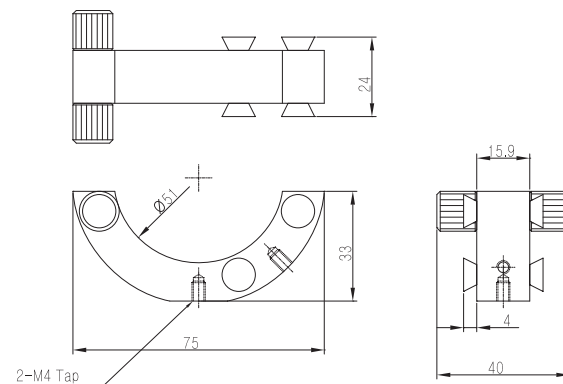
Dual Filter Holders



- Holds one or two filters with maximum clear aperture.
- Optics hold separately to prevent scratching.



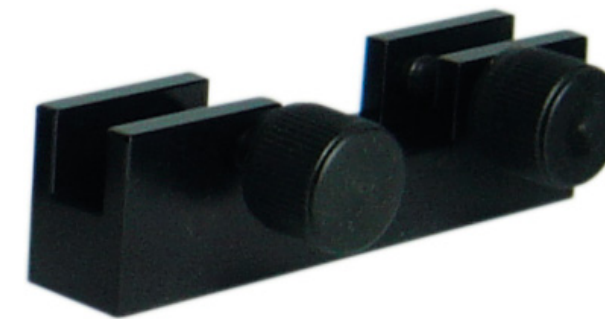
HFS-1



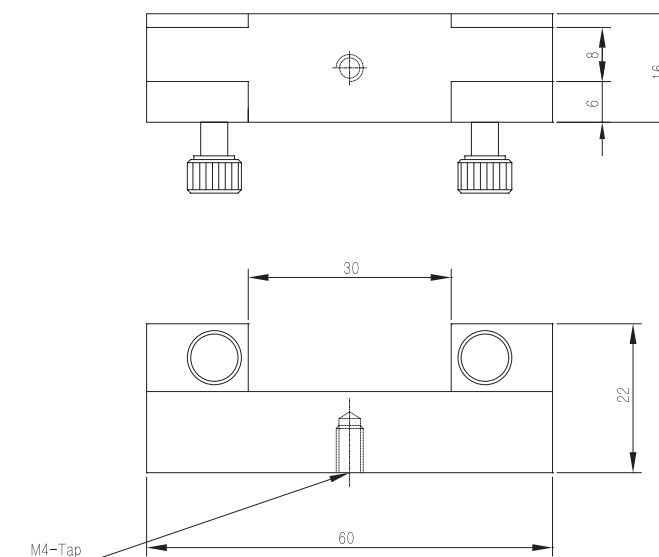
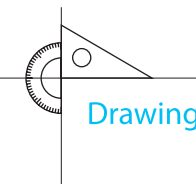
HFR-2

Model	HFS-1	HFR-2
Size (mm)	Ø38.1	Ø51
Material (Treatment)	Aluminum (Black Anodized)	
Holes Pattern	M4-Tap, CLR	

Filter Holders



- A holder for filter fixing of a square form.



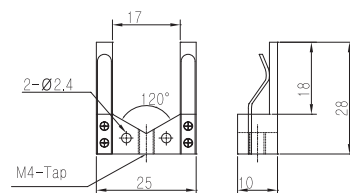
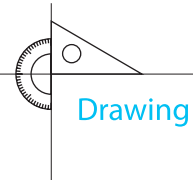
HFP-2

Model	HFP-2
Size (mm)	60x16x22
Description	Filter Holder
Material (Treatment)	Aluminum (Black Anodized)
Holes Pattern	M4-Tap

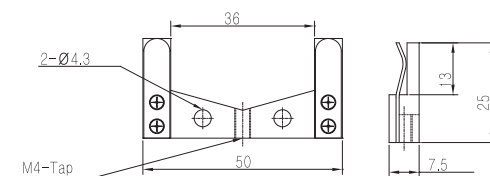
Spring Filter Holders



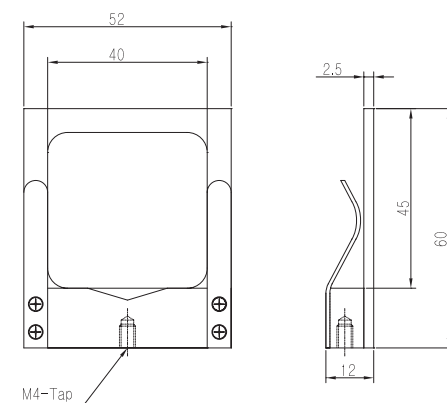
- Stacked to accommodate multiple filters.
- Spring Clip Design.



SFH-1



SFH-2



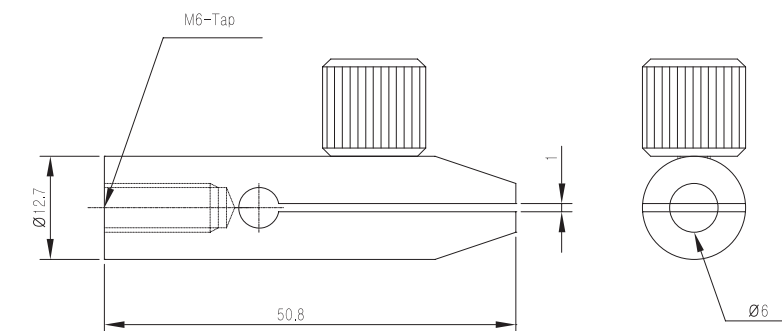
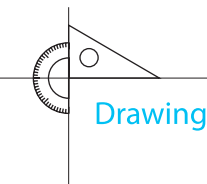
SFH-3

Model	SFH-1	SFH-2	SFH-3
Size (mm)	25 × 28	50 × 25	52 × 60
Material (Treatment)	Aluminum (Black Anodized)		
Holes Pattern	Ø2.3, M4-TAP	Ø4.3, M4-TAP	M4-Tap

Optical Filter Clamps



- LFC-1 is convenient for holding thin objects, such as optical filters.



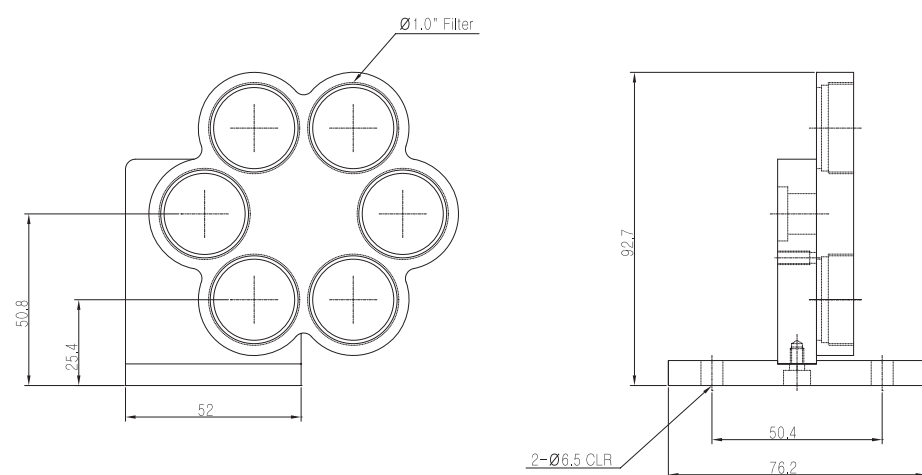
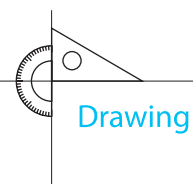
LFC-1

Model	LFC-1
Size (mm)	Ø12.7 × 50.8
Description	Filter Clamp
Material (Treatment)	Aluminum (Black Anodized)
Holes Pattern	M6-Tap

Filter Wheel



- Precision indexed rotation.
- 6 Position Filter Wheel.
- Simple filter wheel removal.
- 60° rotation possibility.
- Quick-change filter holders.
- A Six pitches circular touch type.



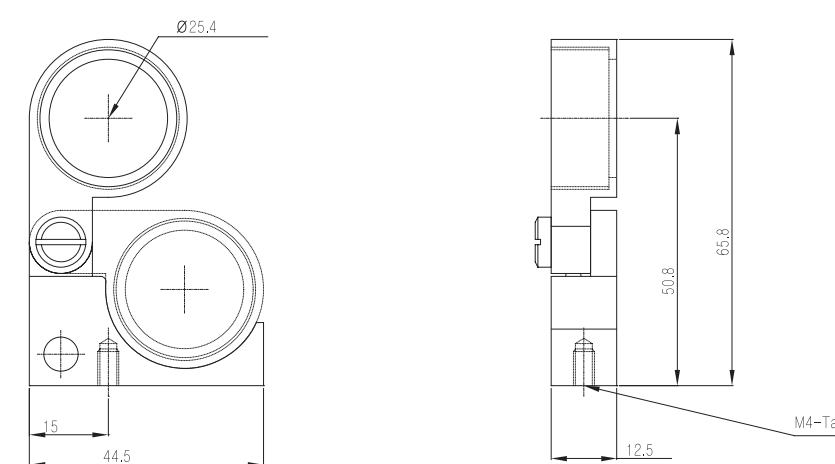
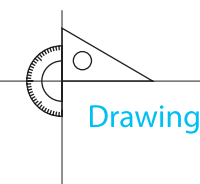
FW-1

Model	FW-1
Optic Diameter	Ø 25.4
Adjustment Range	60° Rotation
Material (Treatment)	Aluminum (Black Anodized)
Holes Pattern	M4-Tap

Flip Up Filter Holders



- Quickly insert or remove filters in experiment.
- 90° flip function.
- Close, or open usable.



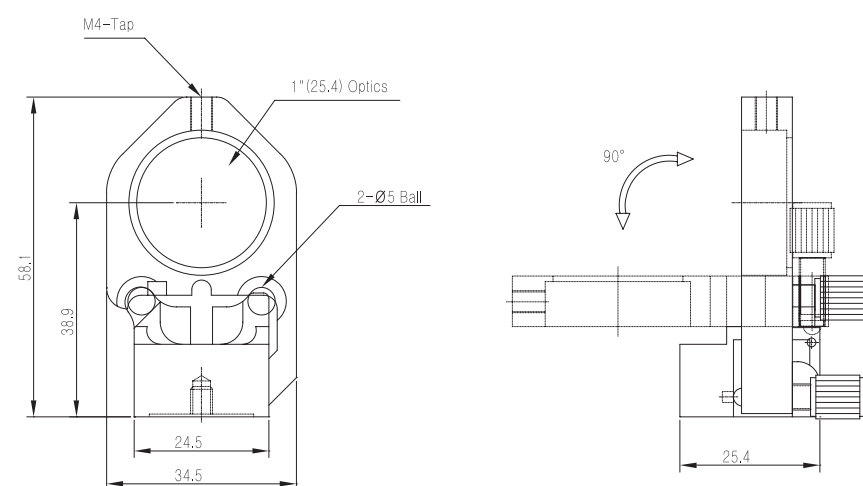
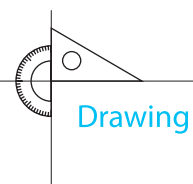
FH-90

Model	FH-90
Optic Diameter	Ø 25.4
Size(mm)	44.5×12.5×65.8
Description	Flip-Up
Material(Treatment)	Aluminum (Black Anodized)
Holes Pattern	M4-Tap

Flipper Mount



- Lockable.
- Compact Kinematic design.
- Easily flip optics.



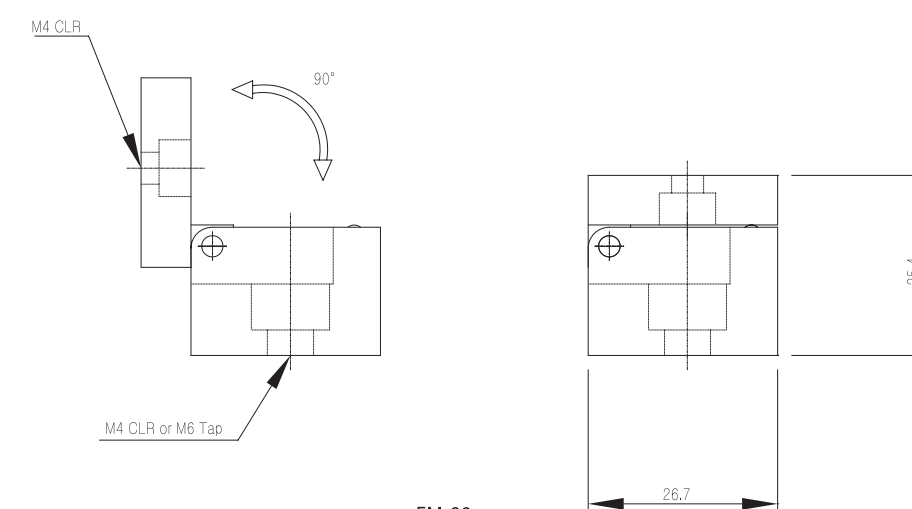
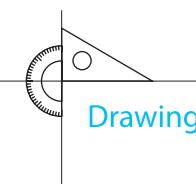
FP-90

Model	FP-90
Size(mm)	34.5×25.4×58.1
Description	Flipper Mount
Adjustment Drive	3/16-100 Tpi Screw
Material(Treatment)	Aluminum (Black Anodized)
Holes Pattern (Top)	M4-Tap
Holes Pattern (Bottom)	M4-Tap

Flip Mount



- Compact hinge design.
- Highly repeatable in/out function.



FM-90

Model	FM-90
Size (mm)	25.4×26.7×25.4
Description	Flip Mount
Material (Treatment)	Aluminum (Black Anodized)
Holes Pattern (Top)	M4 CLR
Holes Pattern (Bottom)	M4 CLR, M6 Tap



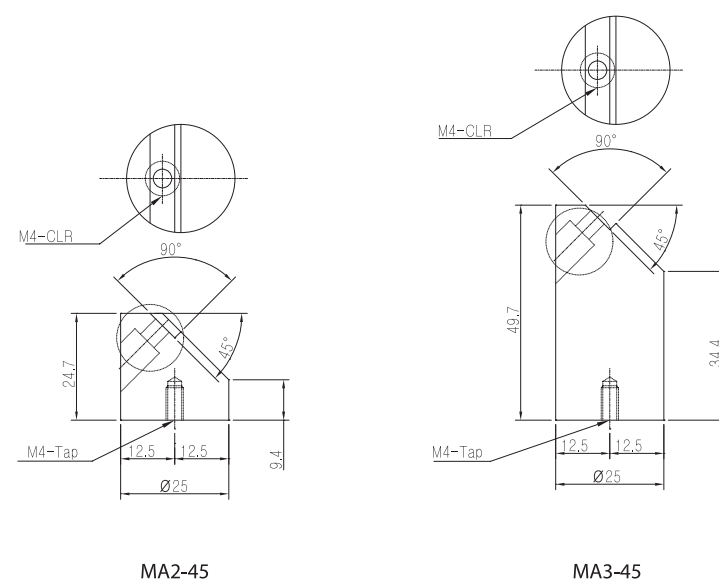
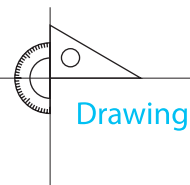
Mirror Mounts

- 45° Mounting Adapter
- 45° Precision Kinematic Mount
- Beamsplitter Table Mounts
- Kinematic Mirror mounts
- Kinematic Prism Mount
- Vertical Drive Optical Mounts
- Microscope Tilt Mounts
- Cylindrical Tilt Mirror Mounts
- Compact Mirror Mount / Holder
- Ultra Resolution Mirror Mounts
- Cube Holders / Mirror Holders
- Flexure Mounts

45° Mounting Adapter



- A mounting adapter to exchange a beam in 45° directions.
- Hex screw for easy mirror replacement.

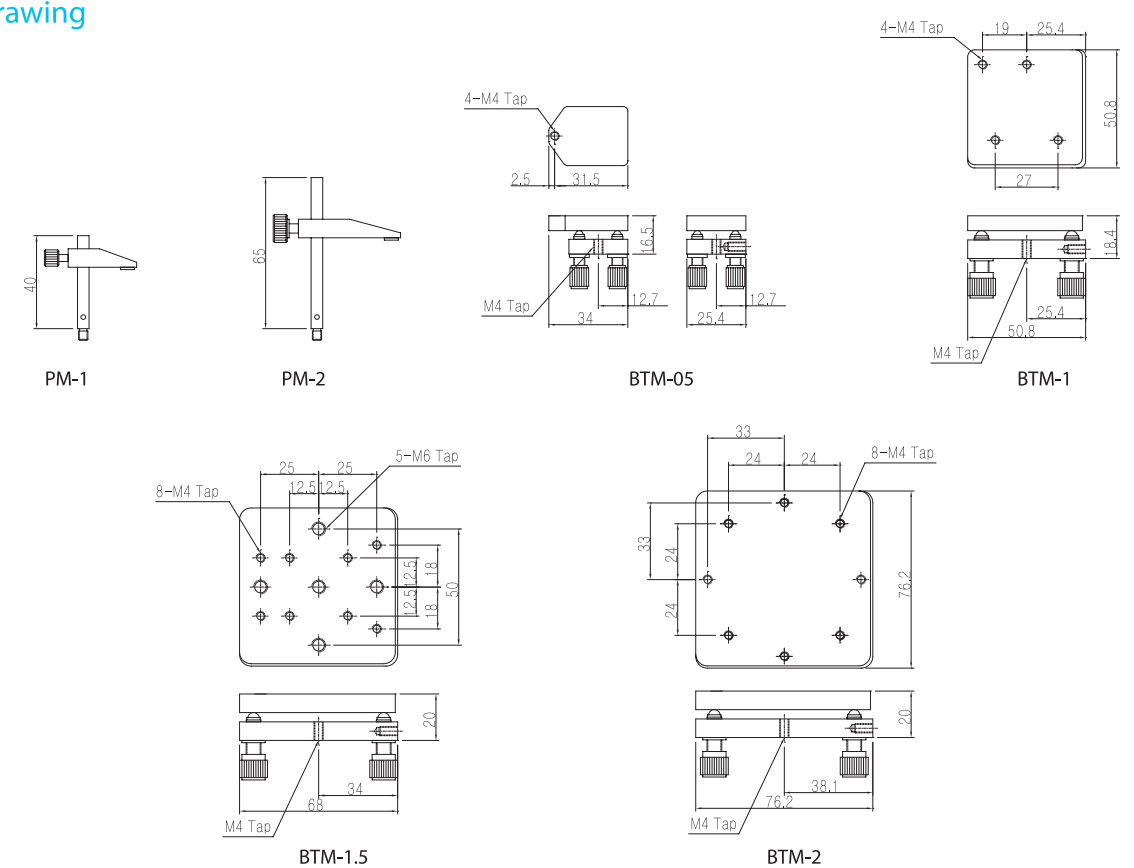
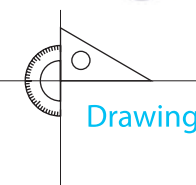


Model	MA2-45	MA3-45
Size (mm)	Ø25 × 24.7	Ø25 × 49.7
Material (Treatment)	Aluminum (Black Anodized)	
Holes Pattern	M4-Tap, CLR	

Beamsplitter Table Mount Mounting Hardware Sold Separatly



- PM series and BTM series are usable structure to Beamsplitter and Prism Table.

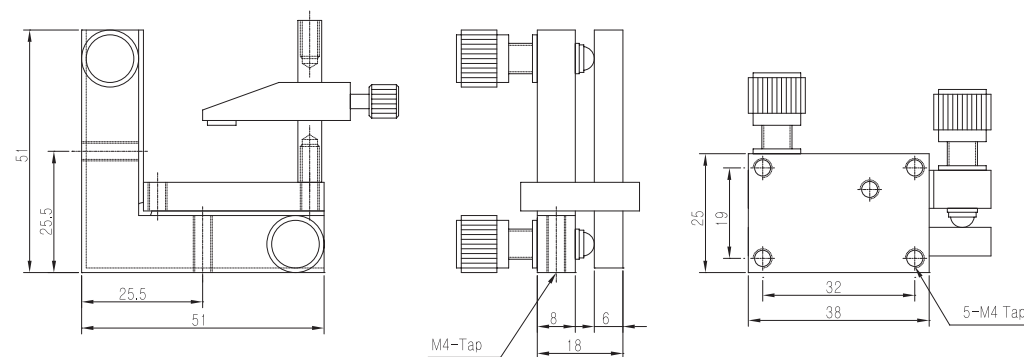
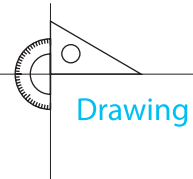


Model	BTM-05	BTM-1	BTM-1.5	BTM-2	PM-1	PM-2	
Size (mm)	34×25.4	50.8×50.8	68×68	76.2×76.2	Ø5×40	Ø5×65	
Adjustment Range	±4°				-		
Adjustment Drive	100-Pitch	2-Axis 80-Pitch Screw					
Description	Beamsplitter Table Mount				Prism Mounting Hardware		
Material(Treatment)	Aluminum (Black Anodized)						
Holes Pattern	M4 Tap						

Kinematic Prism Mounts



- This mount provides a degree of rotational freedom that a horizontal platform mount does not provide.
- This extra degree of freedom is required when using prisms in beam-steering applications.



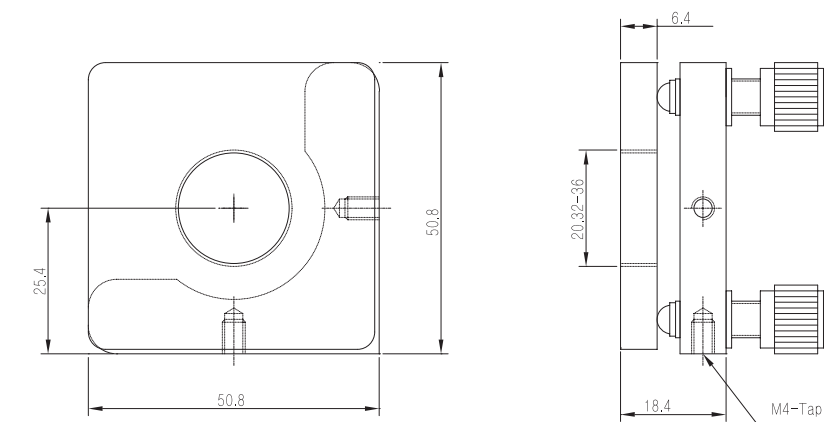
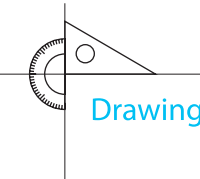
KM1-PM

Model	KM1-PM
Size (mm)	51 × 51
Adjustment Drive	8°
Description	Prism Mount
Material (Treatment)	Aluminum (Black Anodized)
Holes Pattern	M4-Tap

Microscope Tilt Mounts



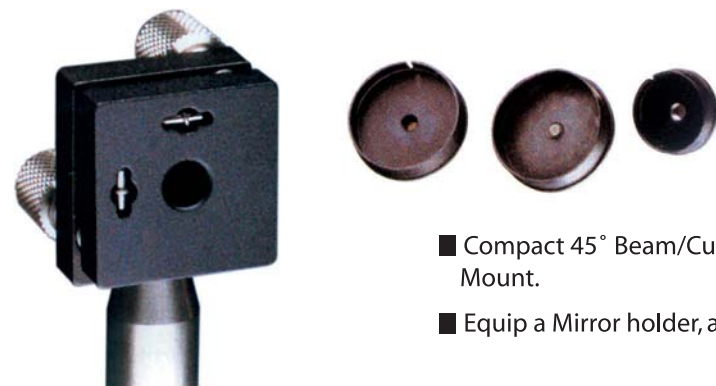
- Objective lense mounting.
- Minuteness adjustment screw.



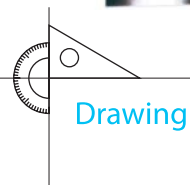
MOM-1

Model	MOM-1
Size (mm)	50.8 × 50.8
Adjustment Range	8°
Adjustment Drive	2 Axis 80-Pitch Screws
Description	Microscope Objectives
Material (Treatment)	Aluminum (Black Anodized)
Holes Pattern	M4-Tap

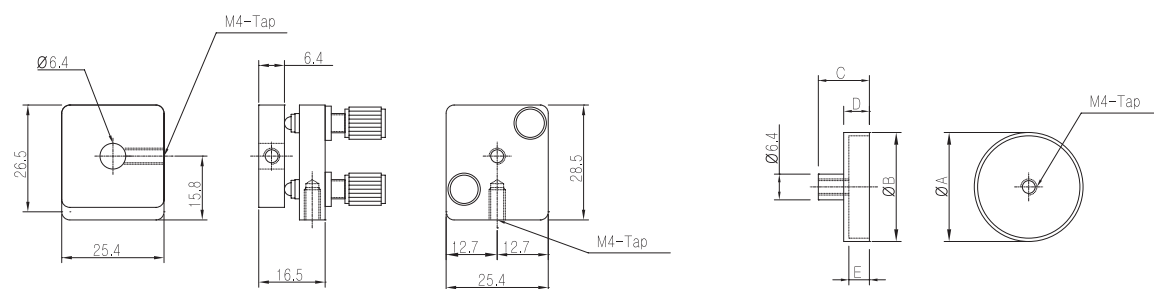
Compact Mirror Mount / Mirror Holder



- Compact 45° Beam/Cube Holder is usability as it attaches to 0.5" Mirror Mount.
- Equip a Mirror holder, and it is usability to mini Tilt Mount.



Drawing

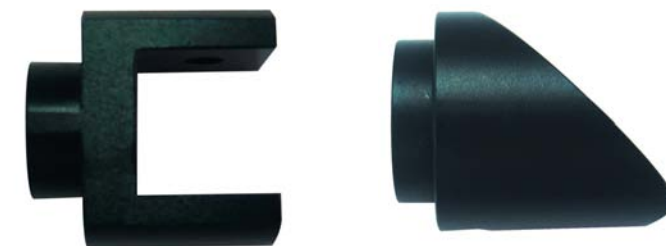


CMM-1

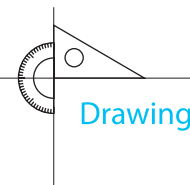
CMM-05H, CMM-075H, CMM-1H, CMM-2H

Model	CMM-1	CMM-05H				CMM-075H				CMM-1H				CMM-2H			
Optic Diameter		B	Ø12.7 (0.5")			B	Ø19.1 (0.75")			B	Ø25.4 (1.0")			B	Ø50.8 (2.0")		
Size (mm)	25.4×28.5×16.5	A	C	D	E	A	C	D	E	A	C	D	E	A	C	D	E
		Ø14.3	10.7	4.3	2.7	Ø20.6	12.2	5.8	4.1	Ø27	12.7	6.4	5.1	Ø52.4	19.4	13.1	11.5
Description	Mirror Mount	Mirror Holder															
Adjustment Drive	100-Pitch																
Material (Treatment)		Aluminum (Black Anodized)															
Holes Pattern		M4 Tap															

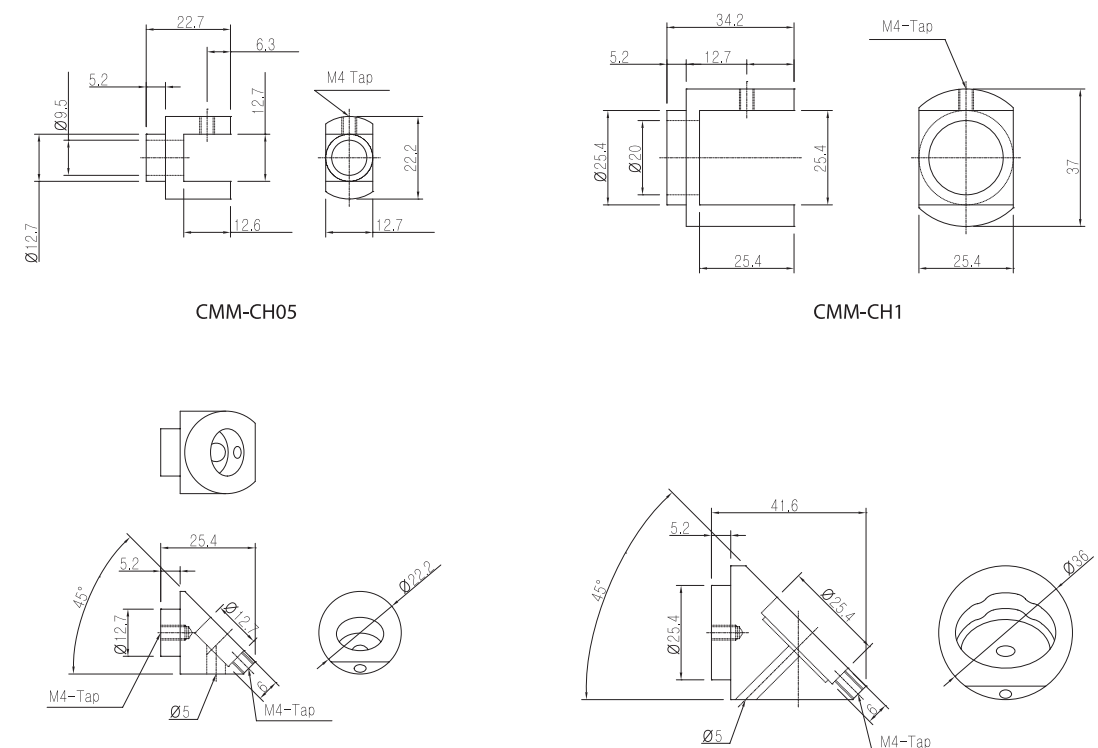
Cube Holders / Mirror Holders



- Modular, beamsplitter mounting.
- CMM series have a clear aperture to allow a transmissive beam to pass through the holder.



Drawing



CMM-CH05

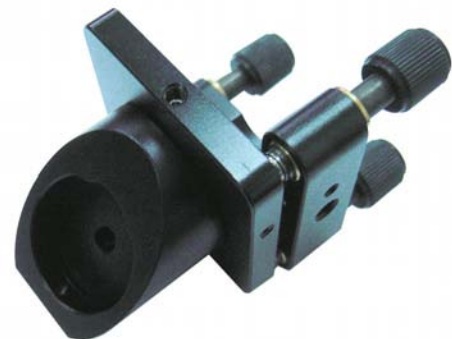
CMM-CH1

CMM-45D05

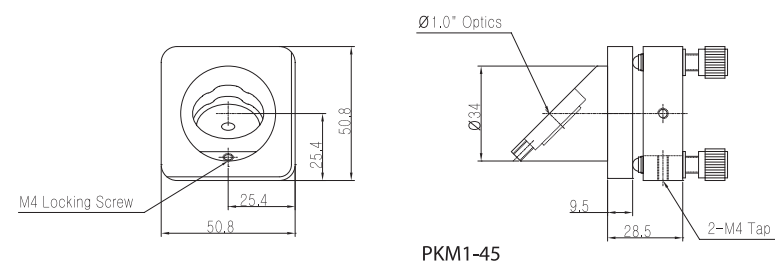
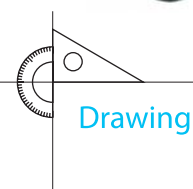
CMM-45D1

Model	CMM-CH05	CMM-CH1	CMM-45D05	CMM-45D1.0		
Optic Diameter	Ø12.7 (0.5")	Ø25.4 (1.0")	Ø12.7 (0.5")	Ø25.4 (1.0")		
Description	Cube Holder		45° Mirror Holder			
Material(Treatment)	Aluminum (Black Anodized)					
Holes Pattern	M4 Tap					

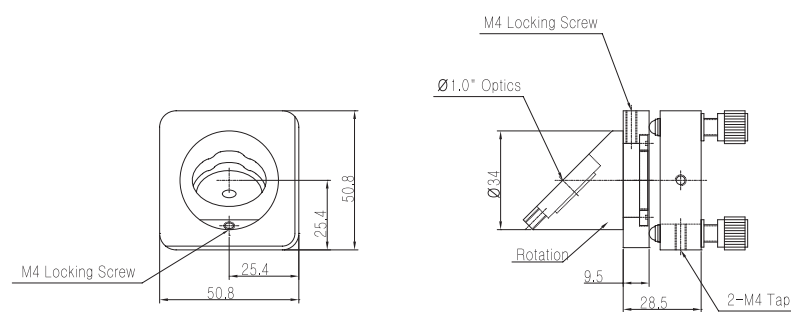
45° Precision Kinematic Mount



- Rotation possibility to the courses that it wanted.



PKM1-45



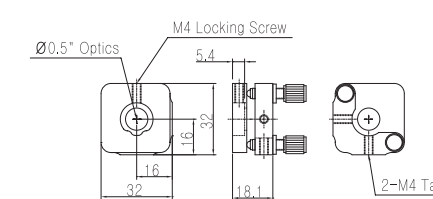
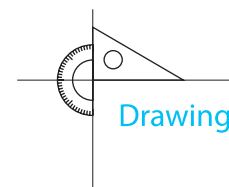
PKM1-45R(Rotation Type)

Model	PKM1-45 / PKM1-45R
Optic Diameter	Ø25.4 (1.0")
Size (mm)	50.8 × 50.8
Adjustment Range	±4°
Adjustment Drive	3-Axis 80-Pitch Screw
Material(Treatment)	Aluminum (Black Anodized)
Holes Pattern	M4 Tap

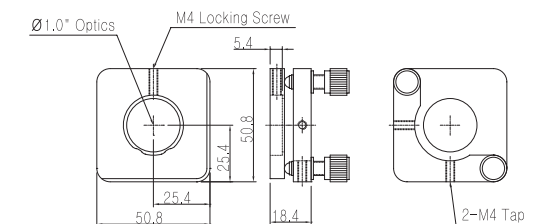
Kinematic Mirror Mounts



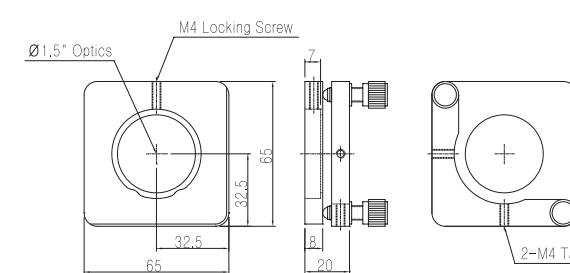
- Control minutely angle adjustment of an optical axis.
- Attach a tip of protection at a bolt for fixing in case of optics mounting.



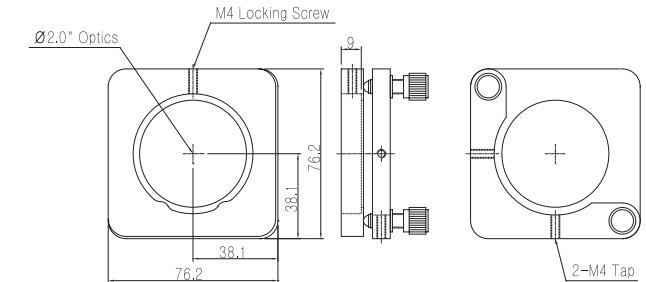
KM05-A



KM1-A



KM1.5-A



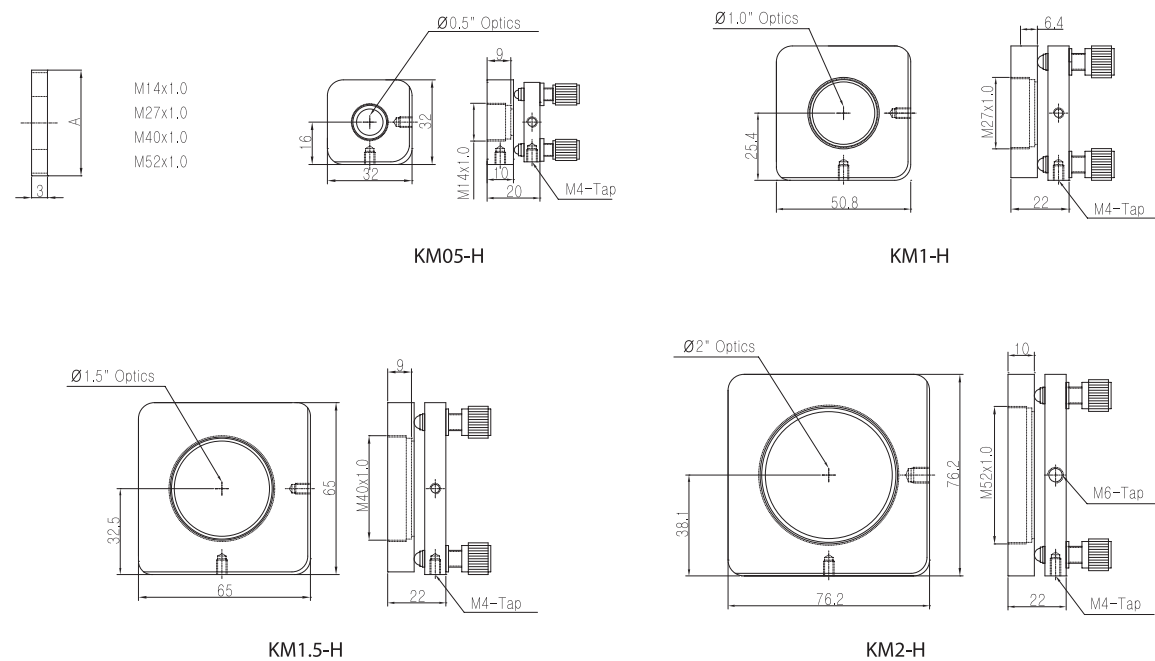
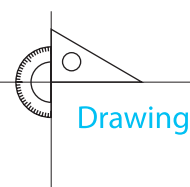
KM2-A

Model	KM05-A	KM1-A	KM1.5-A	KM2-A
Optic Diameter	Ø12.7 (0.5")	Ø25.4 (1.0")	Ø38.1 (1.5")	Ø50.8 (2.0")
Size (mm)	32 × 32	50.8 × 50.8	65 × 65	76.2 × 76.2
Adjustment Range	±4°			
Adjustment Drive	100-Pitch	2 Axis 80-Pitch Screws		
Material (Treatment)	Aluminum (Black Anodized)			
Holes Pattern	M4-Tap			

Kinematic Mirror Mounts (Ring Type)



- Fix to Retain Rings in order to make reliably optics mounting.

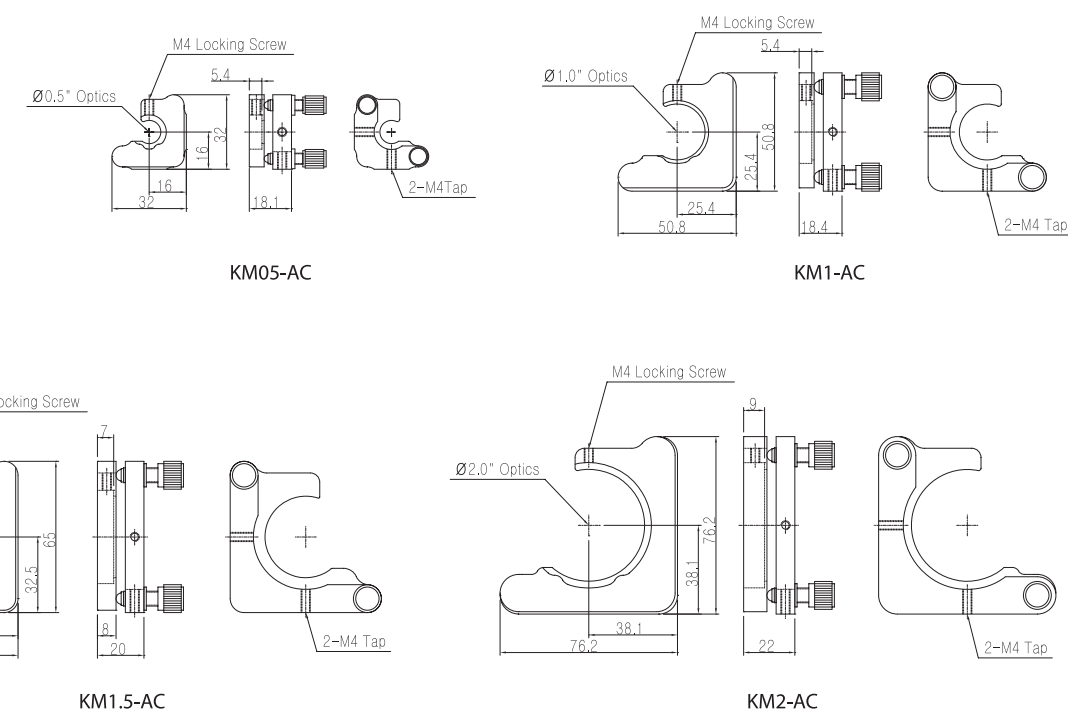
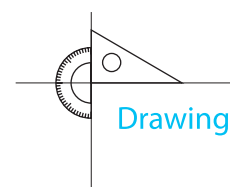


Model	KM05-H	KM1-H	KM1.5-H	KM2-H
Optic Diameter	Ø12.7(0.5")	Ø25.4(1")	Ø38.1(1.5")	Ø50.8(2")
Size (mm)	32 × 32	50.8 × 50.8	65 × 65	76.2 × 76.2
Adjustment Range	±4°			
Adjustment Drive	2 Axis 80-Pitch Screws			
Material (Treatment)	Aluminum (Black Anodized)			
Holes Pattern	M4-Tap			

Kinematic Mirror Mounts



- Side Open type - Use wide course of the incidence angle that wanted.
- Adjust a 1 axis fixed to 2point minuteness screw to the centers, and it is possibility.



Model	KM05-AC	KM1-AC	KM1.5-AC	KM2-AC
Optic Diameter	Ø 12.7 (0.5")	Ø 25.4 (1.0")	Ø 38.1 (1.5")	Ø 50.8 (2.0")
Size (mm)	32 × 32	50.8 × 50.8	65 × 65	76.2 × 76.2
Adjustment Range	±4°			
Adjustment Drive	100-Pitch	2 Axis 80-Pitch Screws		
Material (Treatment)	Aluminum (Black Anodized)			
Holes Pattern	M4-Tap			

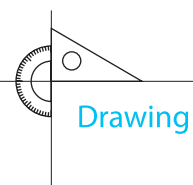
Precision Kinematic Mounts



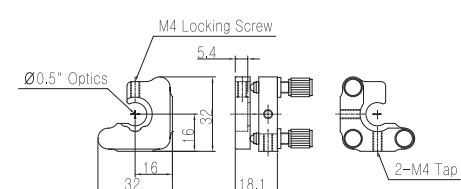
■ Translation function to 3point drive without unresets of minuteness adjustment screw in 2 axis tilt and 1 axis directions.

■ Side Open Type

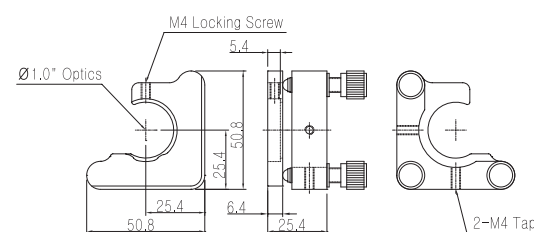
■ Bottom Drive Plate: 15mm → Adjustment Drive가 안정적이다.



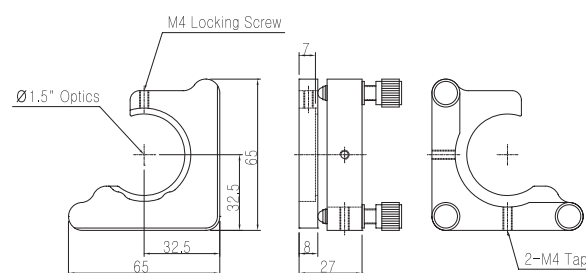
Drawing



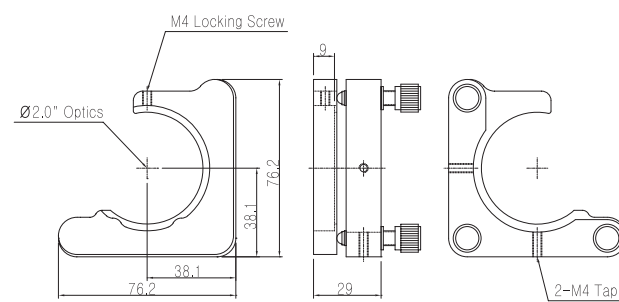
PKM05-AC



PKM1-AC



PKM1.5-AC



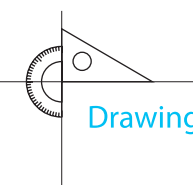
PKM2-AC

Model	PKM05-AC	PKM1-AC	PKM1.5-AC	PKM2-AC
Optic Diameter	Ø 12.7 (0.5")	Ø 25.4 (1.0")	Ø 38.1 (1.5")	Ø 50.8 (2.0")
Size (mm)	32 × 32	50.8 × 50.8	65 × 65	76.2 × 76.2
Adjustment Range	±4°			
Adjustment Drive	100-Pitch	3 Axis 80-Pitch Screws		
Material (Treatment)	Aluminum (Black Anodized)			
Holes Pattern	M4-Tap			

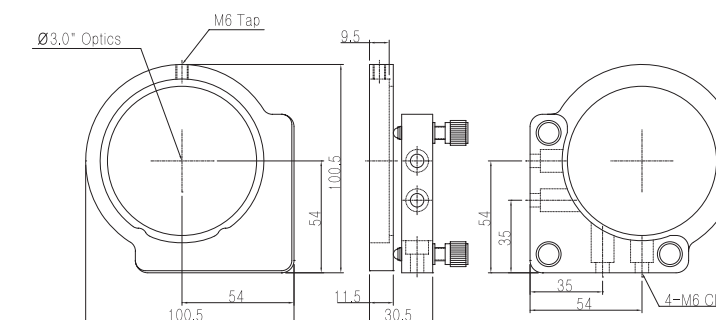
Precision Kinematic Mounts



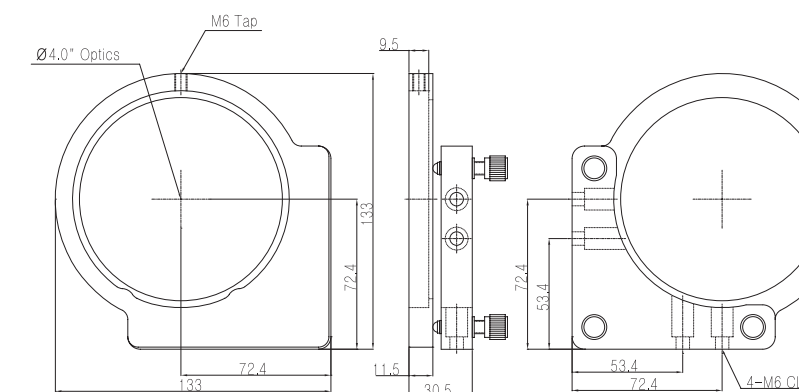
■ The axis which it was fixed is thrown into confusion of minuteness adjustment screw to the centers, and it is angle adjustment.



Drawing



KM3-A



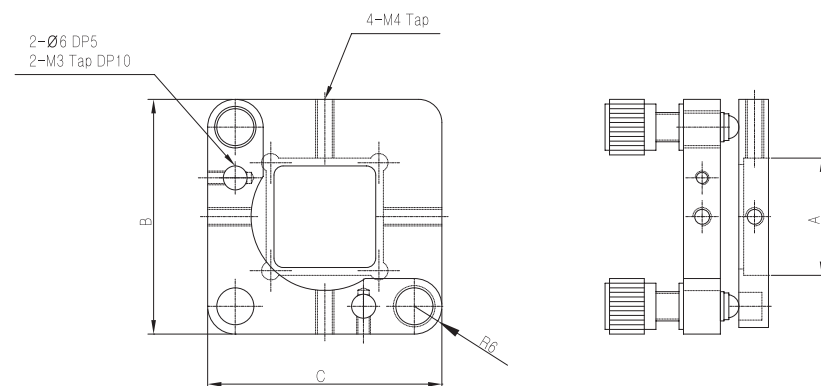
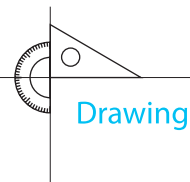
KM4-A

Model	KM3-A	KM4-A
Optic Diameter	Ø76.2(3.0")	Ø101.6(4.0")
Size (mm)	100.5×100.5	133×133
Adjustment Range	±3°	
Adjustment Drive	3-Axis 80-Pitch Screw	
Material (Treatment)	Aluminum (Black Anodized)	
Holes Pattern	M6 CLR	

Cylindrical Tilt Mounts



- Put various square optics at home of a square.
- Adjustment possibility to 2 axis minuteness screw.



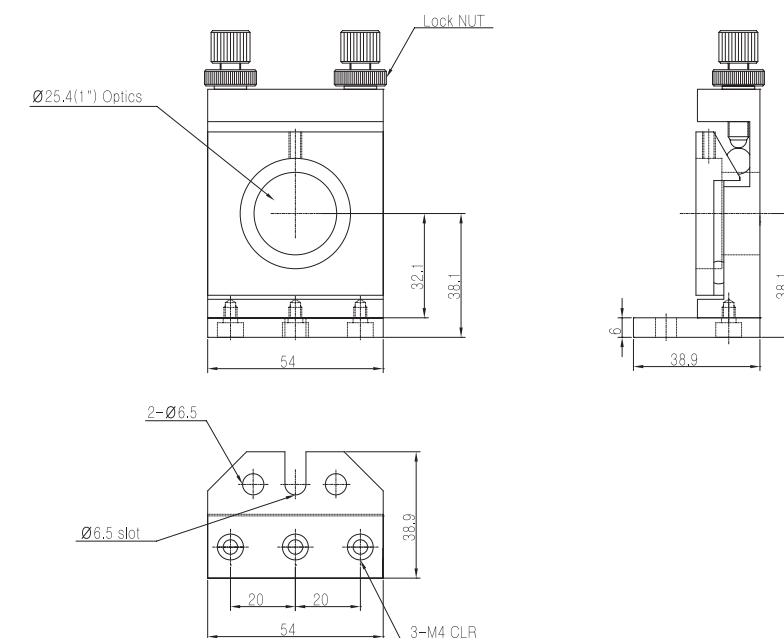
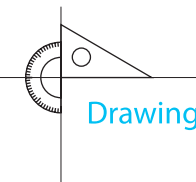
CTM-1 / CTM-2

Model		CTM-1	CTM-2
Lens Dimension	A	25.4	50.8
Size (mm)	BxD	50.8 × 50.8	76.2 × 76.2
Adjustment Range		8°	
Adjustment Drive		2 Axis 80-Pitch Screws	
Material (Treatment)		Aluminum (Black Anodized)	
Holes Pattern		M4-Tap	

Vertical Drive Optical Mounts



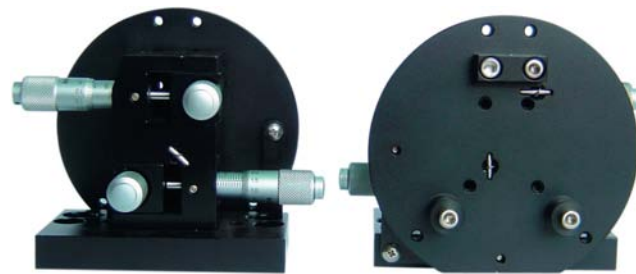
- The function that can make a distance between optical axis small.
- The usability that can adjust at the top.



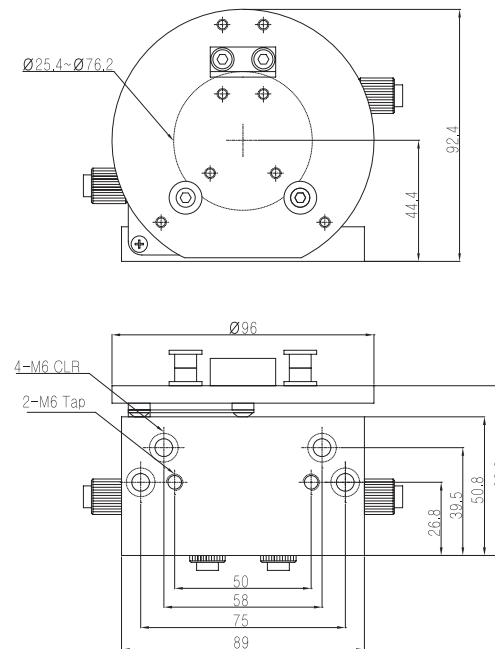
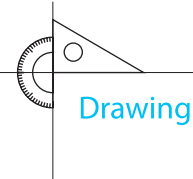
LVM-1

Model	LVM-1
Optic Diameter	Ø25.4
Size (mm)	54 × 39.9 × 76.4
Angular Tilt	6°
Adjustment Drive	2 Axis 80-Pitch Screws
Material (Treatment)	Aluminum (Black Anodized)
Holds Pattern (Top)	M4-Tap
Holes Pattern (Bottom)	Ø6.5, Ø6.5-Slot

Ultra Resolution Mirror Mounts



- Adjust minutely an angle to axes intuitive use to a micrometer structural.

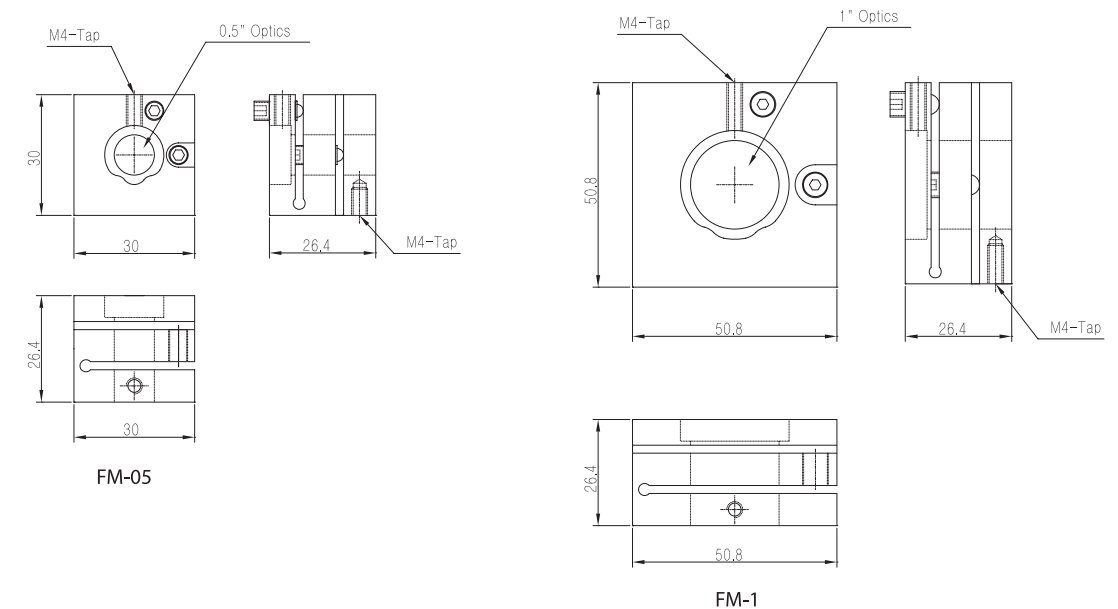
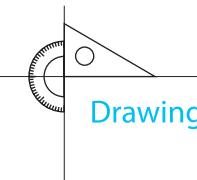


URM-M

Model	URM-M
Size (mm)	89 × 62.2 × 92.4
Lens Dimensions	Ø25.4 ~ Ø76.2
Adjustment Range	8°
Adjustment Drive	SM-13 Micrometer
Material (Treatment)	Aluminum (Black Anodized)
Holes Pattern	M6-Tap, CLR

Flexure Mounts

- Ultra-stable Aluminum construction.
- 80-pitch adjustment screw.
- Compact, kinematic design.



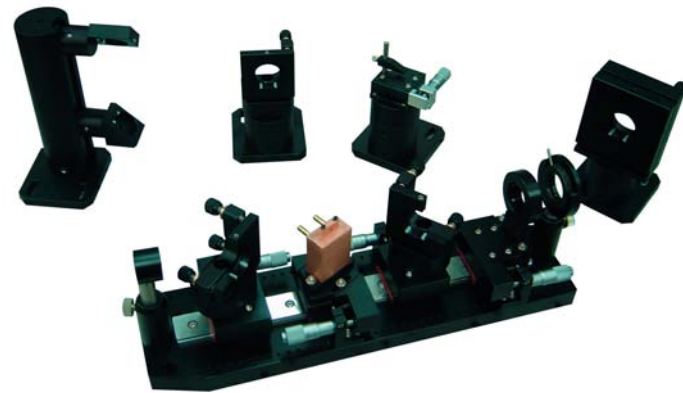
Model	FM-05	FM-1
Optic Diameter	Ø12.7	Ø25.4
Size (mm)	30×30×26.4	50.8×50.8×26.4
Adjustment Range	±4°	
Adjustment Drive	80-Pitch Screws	
Material (Treatment)	Aluminum (Black Anodized)	
Holes Pattern	M4-Tap	



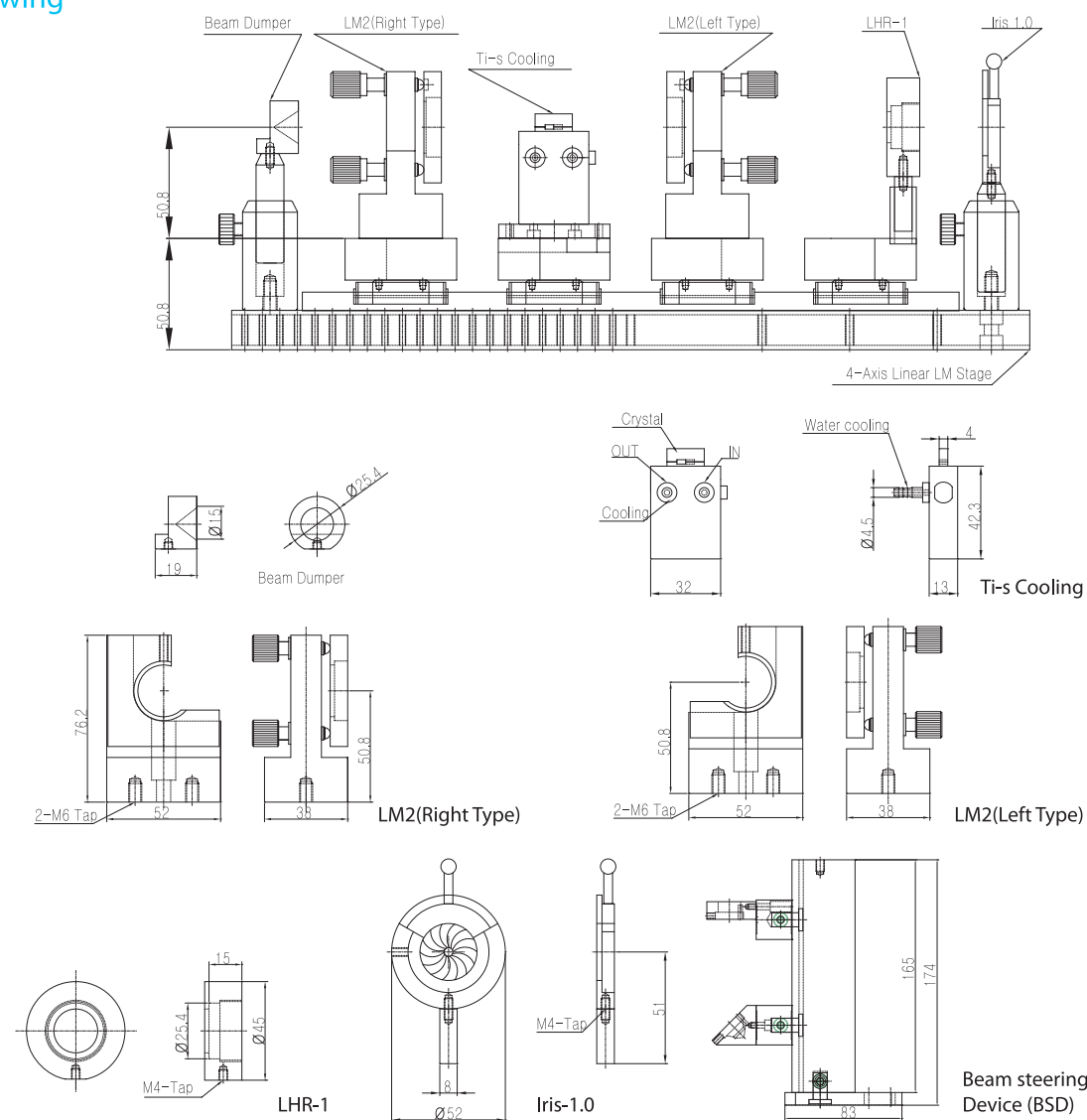
Ti-Sapphire Laser System

Ti-s Laser System
LM Mirror Mounts
Support Riser Base

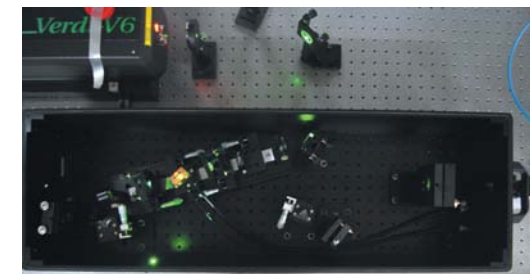
Ti-s Laser System



Drawing



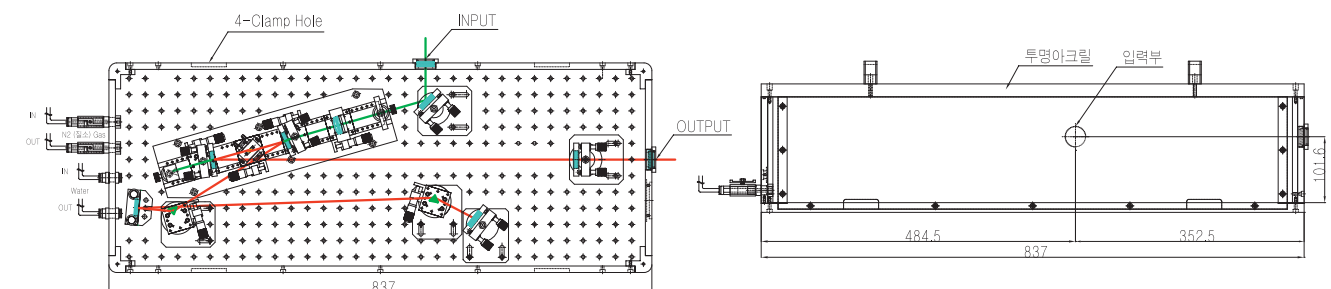
Ti-Sapphire Laser System (Ti-S 800B)



기본구성

- Beam Dumper
- Ti-Sapphire Cooling Mount (주문자형)
- Iris Diaphragm Holder (ID-1)
- Crossroller Translation stage (ACS1-X) → 4-axis
- Prism Translation Stage (ACS1-X) → 2-axis
- LM Mirror Mount (LM2, LM3)
- Lens Holder (LHR-1)
- Vertical Drive Optical Mount (LVM-1)
- Beam Steering Device (BSD)
- Beam Align Scale (SB-150)
- Support Riser Base

Drawing

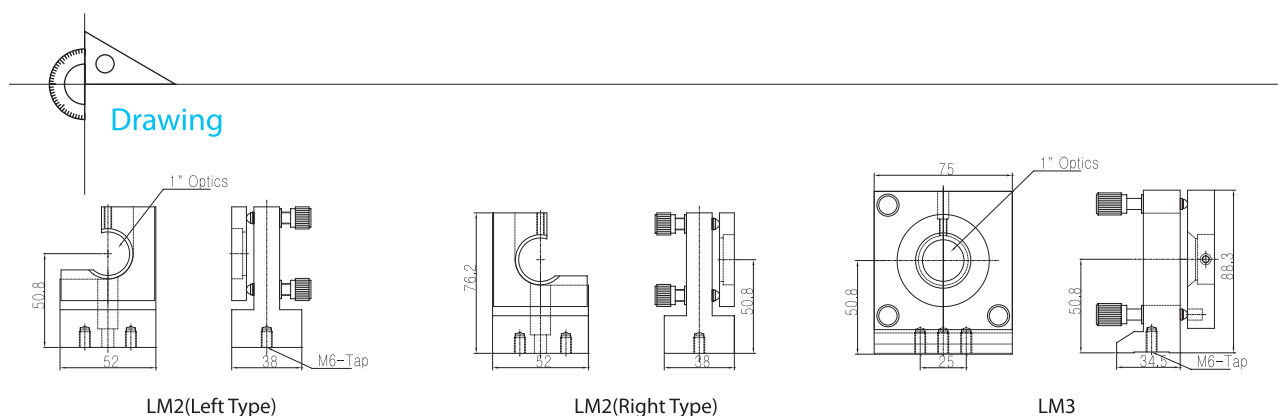


Laser Box

Model	Bottom Base Board	Top Cover	Side Base (Front / Back)	Side Base (Left / Right)
Size	837×323×15	837×323×20	785×173×10	271×164×10
Material(Treatment)	Aluminum (Black Anodized)	Acrylic (투명)	Aluminum (Black Anodized)	
assembling A Type	고정식	탈 부착식		고정식
Holes Pattern	25x25 M6-Tap	M6-Tap, M4-CLR	M4-CLR	M4-CLR

LM Mirror Mounts

- Dynamic range.
- For optics up to 1" dia.
- Kinematically locates the optics.
- Easy moving and replacement.

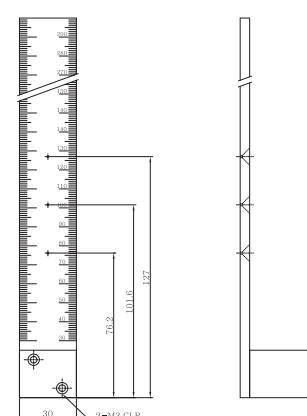


Model	LM2	LM3
Optic Diameter	Ø25.4	
Size (mm)	52×76.2	75×88.3
Adjustment Range	±4°	
Adjustment Drive	80-Pitch Screws	
Material (Treatment)	Aluminum (Black Anodized)	
Holes Pattern	M6-Tap	

Beam Align Scale

- Pinhole 4", 5", 6", 8" - Ø1

Model	SB-150	SB-200	SB-250	SB-300
Scale dimension(mm)	150	200	250	300
Material(Treatment)	Aluminum (Black Anodized)			
Holes Pattern	M3-Tap, M3-CLR			



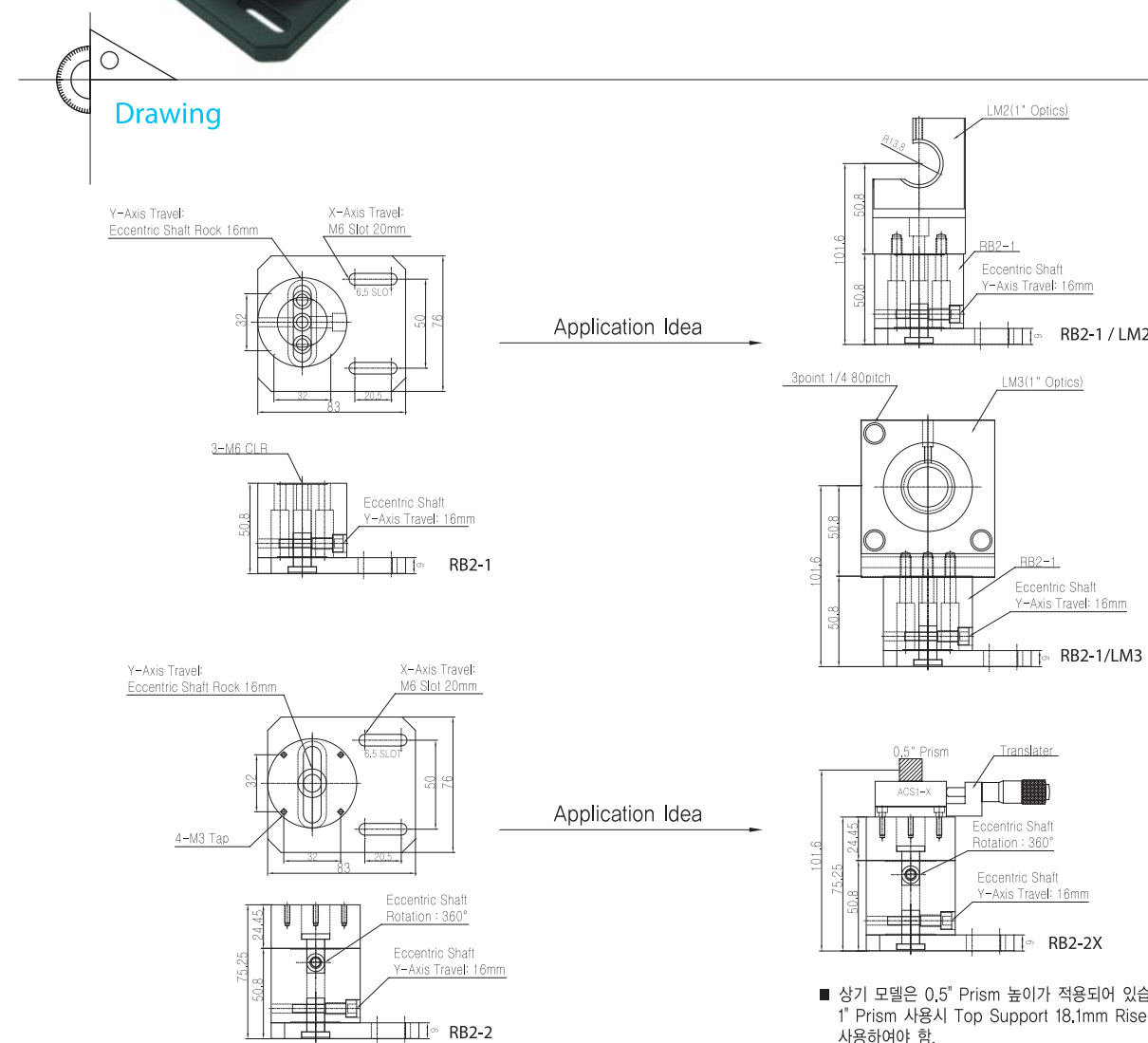
SB-150,200,250,300

An application or transformation are possible to the above-mentioned product.

Support Riser Base



- An excenter fixing enables easy moving of the rod.



Model		RB2-1	RB2-2
Size (mm)		83×76×50.8	83×76×75.25
Travel Range	X-Axis	M6 Slot 20mm	
	Y-Axis	16mm	
Rotation		360°	
Material (Treatment)		Aluminum (Black Anodized)	
Holes Pattern		M6-CLR	M3-Tap

An application or transformation are possible to the above-mentioned product.



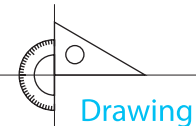
Gimbal Mounts & Base

Gimbal Base Plate
Gimbal Mirror Holder
Gimbal Mirror Mounts
Gimbal Tilt Mounts
Gimbal Cylindrical Mounts
Focusing XYZ Translators
Five-Axis Gimbal Mounts
Precision Gimbal Mounts
Ultima Gimbal Mounts
Ultra-Stable Mirror Mounts
Manual Gimbal Mirror Mount
Vertical Gimbal Mount

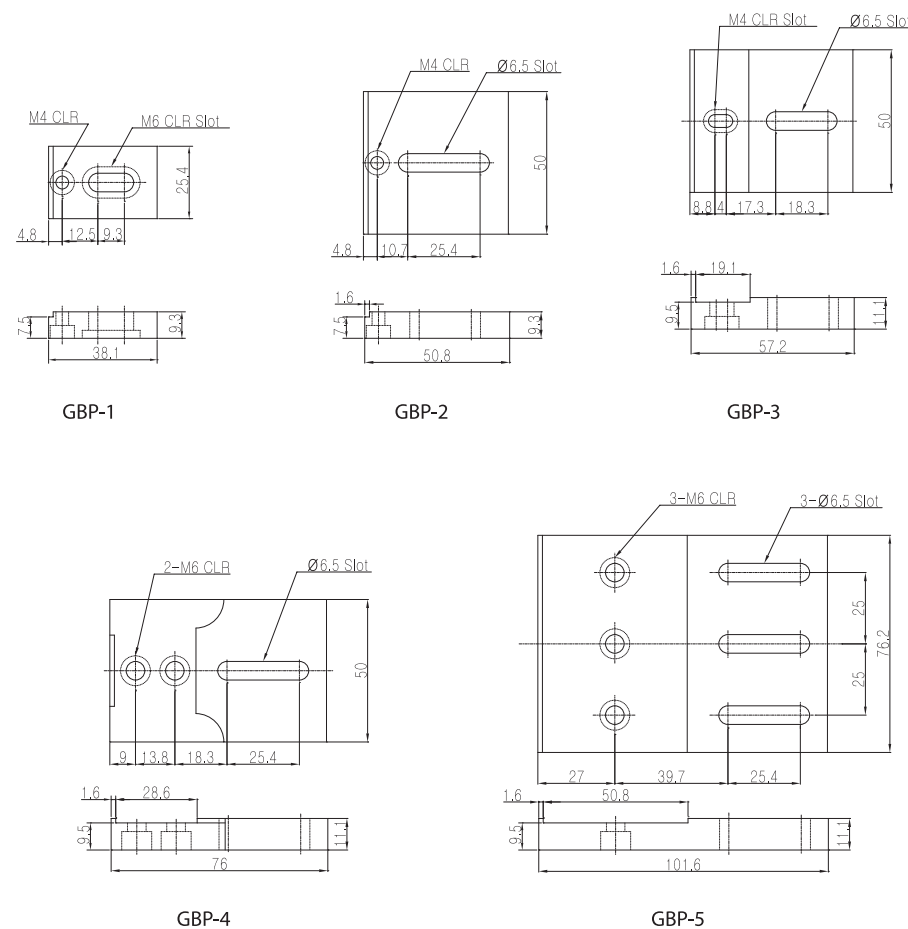
Gimbal Base Plate



■ Gimbal mounting and WPG,MGF,GBM series exclusive use.



Drawing

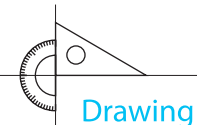


Model	GBP-1	GBP-2	GBP-3	GBP-4	GBP-5
Size (mm)	38.1×25.4	50.8×50	57.2×50	76×50	101.6×76.2
Material (Treatment)	Aluminum (Black Anodized)				
Holes Pattern	M4-CLR M6-CLR Slot	M4-CLR Ø6.5-Slot	M4-CLR Ø6.5-Slot	M4-CLR Slot Ø6.5-Slot	M6-CLR Ø6.5-Slot

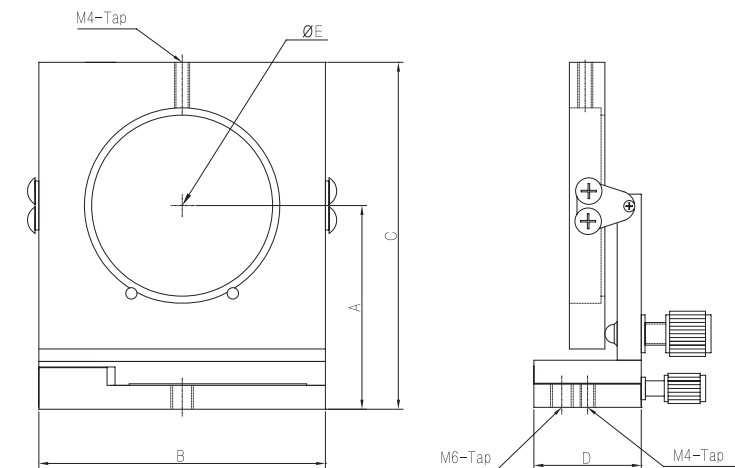
Gimbal Mirror Mounts



- Compact gimbal design.
- Large angular adjustment range.
- Smooth, high resolution 80-pitch adjustment screws.



Drawing



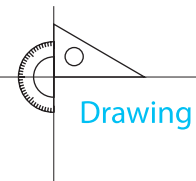
GMM-1 / GMM-2 / GMM-3

Model	GMM-1	GMM-2	GMM-3
Size (mm)	A	41.3	54
	B	50	76
	C	67.5	92
	D	19	28.5
Lens Dimensions	E	Ø25.4	Ø50.8
Adjustment Range	8.5°		
Adjustment Drive	80-Pitch Screw		
Mounting Base	GBP-3	GBP-4	GBP-5
Material (Treatment)	Aluminum (Black Anodized)		
Holes Pattern	M4-Tap, M6-Tap		

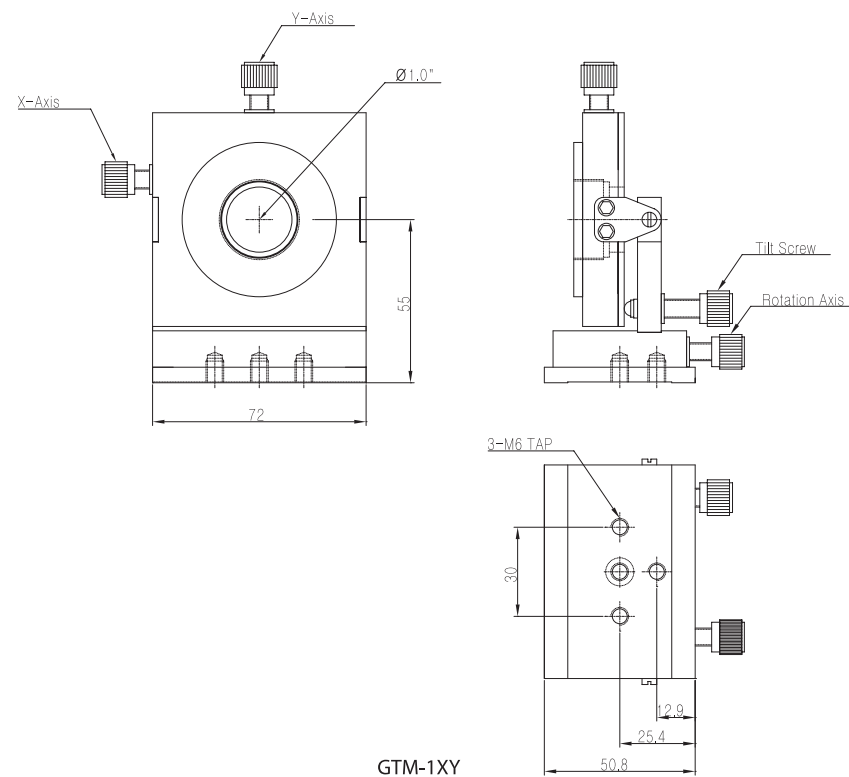
Gimbal Tilt Mounts



- Compact gimbal design.
- The criss-cross motion lock is included in the adjustment knob.



Drawing



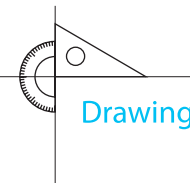
GTM-1XY

Model	GTM-1XY
Optic Diameter	Ø25.4
Size(mm)	72×101.6×103.5
XY Travel	±2mm
Tilt & Rotation	±3°
Travel Guide	4-Axis 80Pitch Screw
Mounting Hole	3-M6 TAP
Material (Treatment)	Aluminum (Black Anodized)

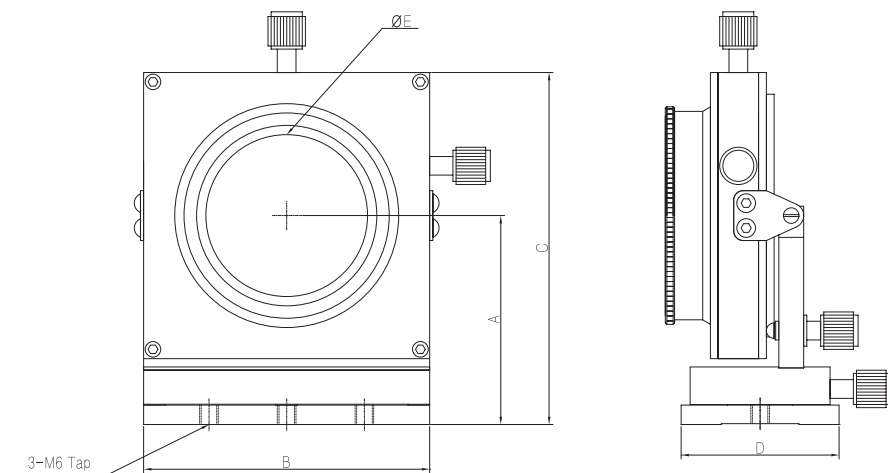
Five-Axis Gimbal Mounts



- Adjust $\pm 5^\circ$ tilt and Rotation minuteness to rise in axes fixed.
- 80Pitch Screw → Minuteness adjusts a XYZ point.



Drawing



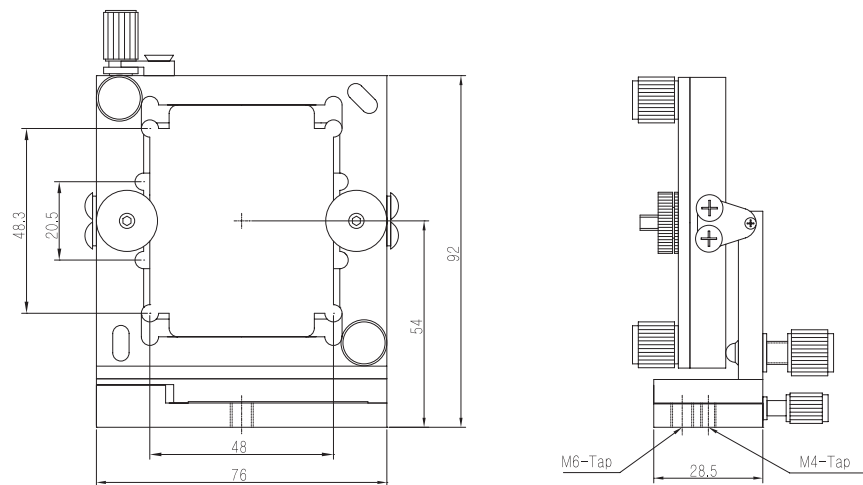
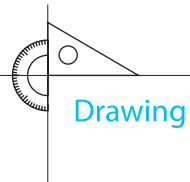
MGF-05 / MGF-1 / MGF-2

Model	MGF-05	MGF-1	MGF-2
Size (mm)	A	54	67.5
	B	76	92
	C	92	113.2
	D	28.5	50.8
Lens Dimensions (mm)	E	25	38~50
X/Y Range (mm)	3	5	5
Z Range (mm)	6		
Gimbal Range (Degree)	5°	11°	10°
Adjustment Drive	80-Pitch Screw		
Mounting Base With	GBP-3	GBP-4	GBP-5
Material (Treatment)	Aluminum (Black Anodized)		
Holes Pattern	M6-Tap		

Gimbal Cylindrical Mounts



- Adjust an angle as equip rectangular optics.
- Rotation possibility with a small angle ($\pm 5^\circ$).



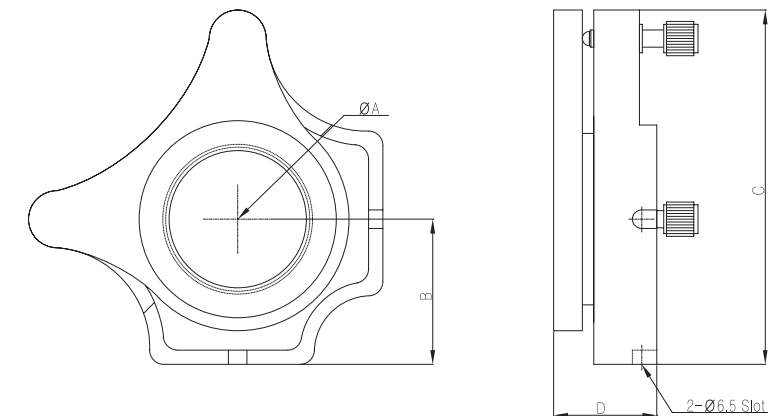
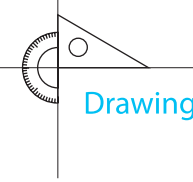
CGM-2

Model	CGM-2
Size (mm)	76×92
Lens Dimensions	50.8×60.5
Roll Adjustment Range	$\pm 5^\circ$
Adjustment Drive	80-Pitch Srew
Mounting Base	GBP-4 / GBP-3
Material (Treatment)	Aluminum (Black Anodized)
Holes Pattern	M4, M6-Tap

Ultima Gimbal Mounts



- The structure that can adjust a stable angle to independent axes.



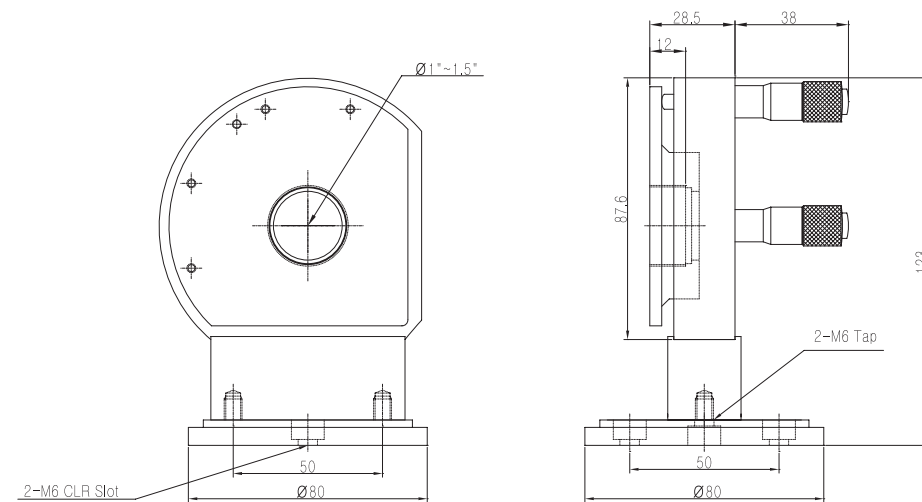
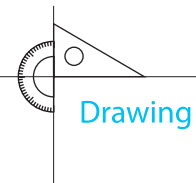
UGM-1 / UGM-2

Model	UGM-1	UGM-2
Lens Diameter	A	Ø25.4
Size (mm)	B	25.4
	C	70
	D	28
		36
Adjustment Range	$\pm 5^\circ$	$\pm 4^\circ$
Adjustment Drives	2 Axis 80-Pitch Screws	
Material (Treatment)	Aluminum (Black Anodized)	
Holes Pattern	Ø4.5-Slot	Ø6.5-Slot

Ultra-Stable Mirror Mounts



- High-stability design.
- Wide range of sizes fits most optics.



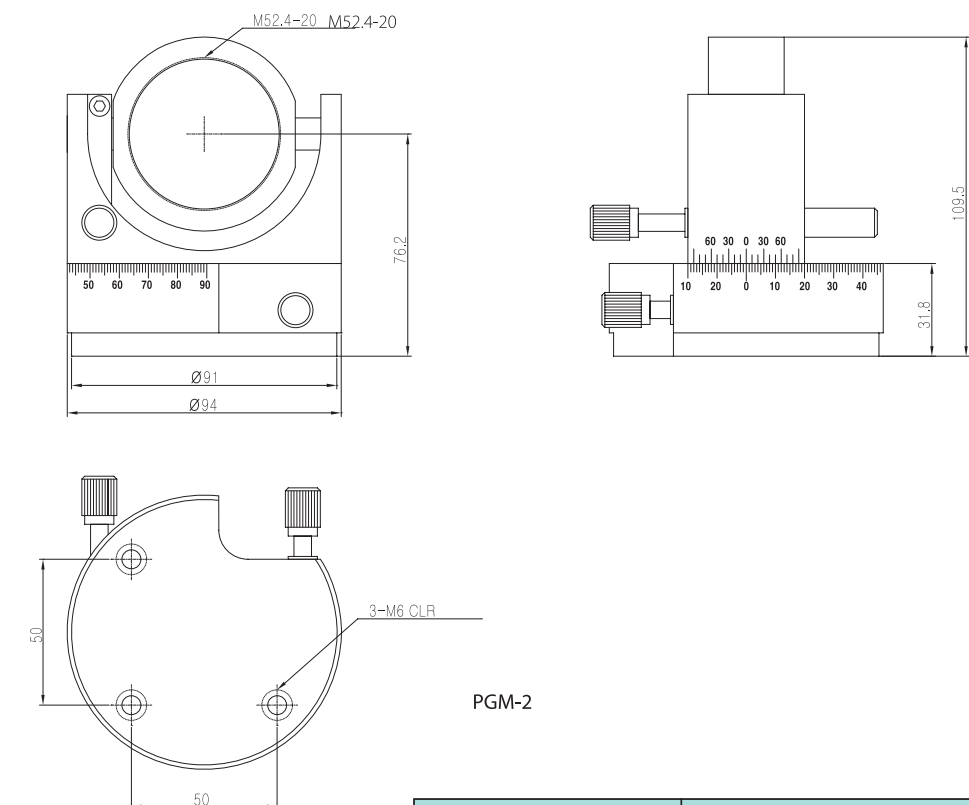
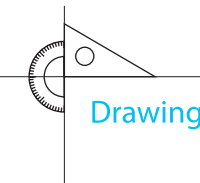
LSM

Model	LSM-1	LSM-1.5
Optic Diameter	$\varnothing 25.4$	$\varnothing 38.1$
Size (mm)	76×76×123	
Adjustment Range	Tilt & Rotation $\pm 4^\circ$	
Adjustment Drive	2-Axis Micrometer Head	
Material (Treatment)	Aluminum (Black Anodized)	
Holes Pattern (Bottom)	M6 CLR Slot, M6 Tap	

Precision Gimbal Mounts



- Adjust voluntarily an angle and the rotation that wanted.
- The structure that can adjust minutely after fixing in a lock device.



PGM-2

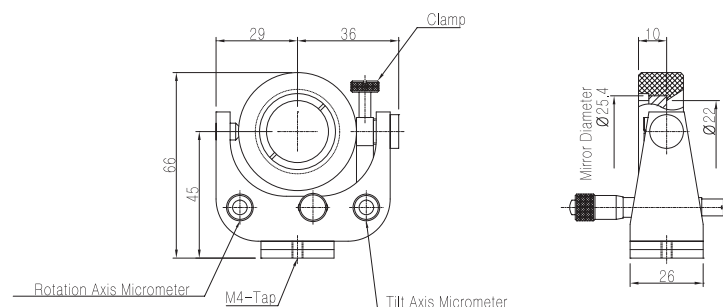
Model	PGM-2
Size (mm)	76×92
Lens Dimensions	$\varnothing 50.8$
Rotation/Fine Range	$360^\circ / 10^\circ$
Adjustment Drive	80-Pitch Screw
Material (Treatment)	Aluminum (Black Anodized)
Holes Pattern	M6-CLR

Gimbal Mirror Holder

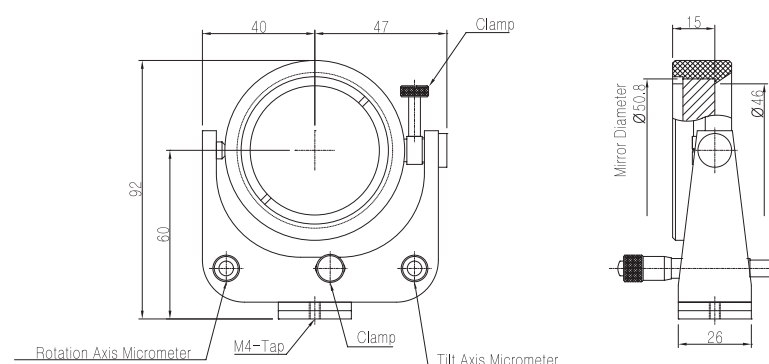


- Compact Gimbal design.
- Versatile design accepts optics larger and smaller than nominal dimensions.
- The gimbal structure will align the rotation center to the center of the mirror.

Drawing



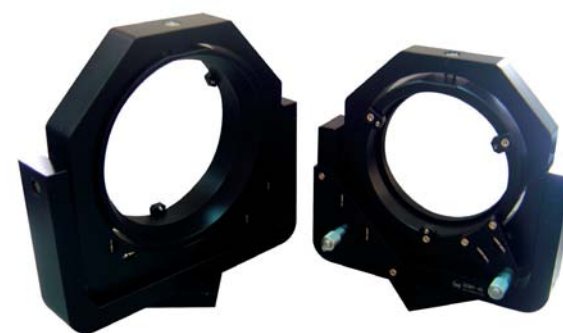
GMH-1



GMH-2

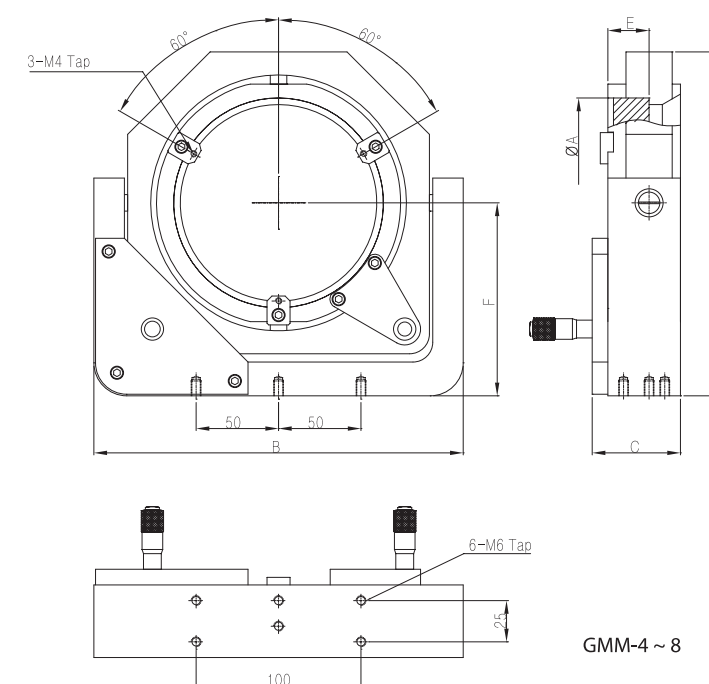
Model	GMH-1	GMH-2
Optic Diameter	Ø25.4 (1.0")	Ø50.8 (2.0")
Size (mm)	65 × 26 × 66	87 × 26 × 92
Adjustment Range	Tilt ±4° / Precision Rotation ±4° Manual Rotation 360°	
Adjustment Drive	2-Axis Micrometer Head	
Material (Treatment)	Aluminum (Black Anodized)	
Holes Pattern (Bottom)	M4 Tap	

Gimbal Mirror Mounts



- Gimbal design.
- Large angular adjustment range.
- Smooth,high resolution 80-pitch adjustment screws.

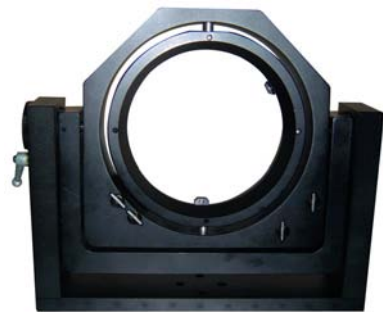
Drawing



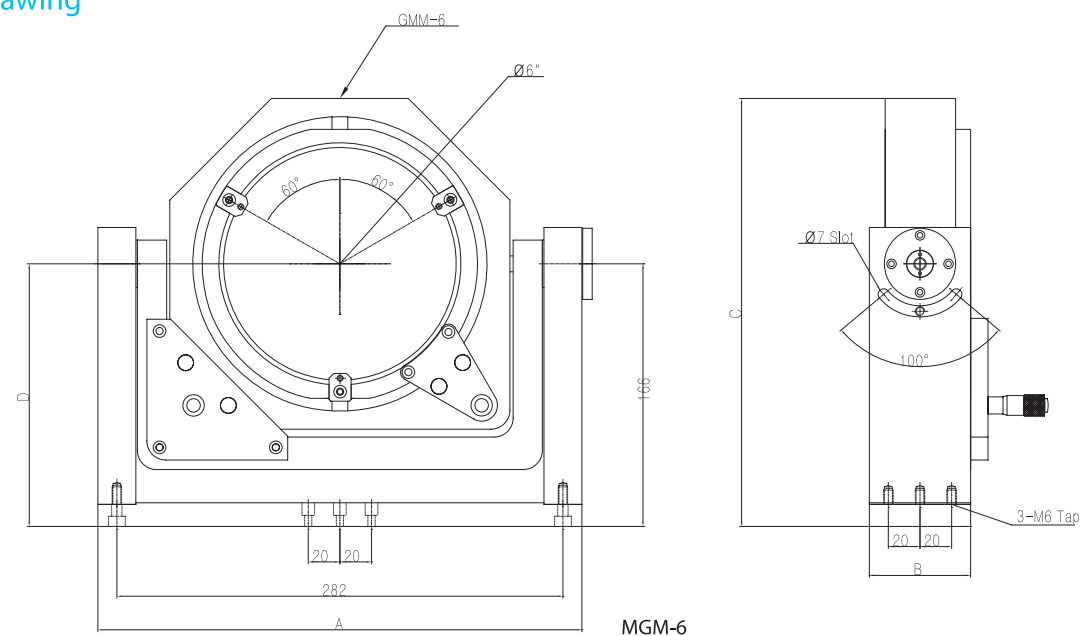
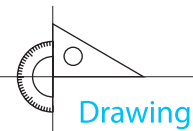
GMM-4 ~ 8

Model		GMM-4	GMM-5	GMM-6	GMM-7	GMM-8
Size (mm)	A	Ø101.6 (4.0")	Ø127 (5.0")	Ø152.4 (6.0")	Ø177.8 (7.0")	Ø203.2 (8.0")
	B	197	224	256	280	320
	C	47	53.5	60	67	73.5
	D	178	208.5	234.5	260.5	294.5
	E	20	25	28.5	32	36
	F	100	117	130	143	160
Tilt & Rotation		±5°	±4.5°	±4°	±3°	±3°
Adjustment Drives		2-Axis Micrometer Head				
Material(Treatment)		Aluminium(Black Anodized)				
Holes Pattern		M6 TAP				

Manual Gimbal Mirror Mount



- Gimbal design.
- Manual Rotation $\pm 50^\circ$
- While in a locked state, adjusted by the $\pm 3^\circ$ micrometer drive system.

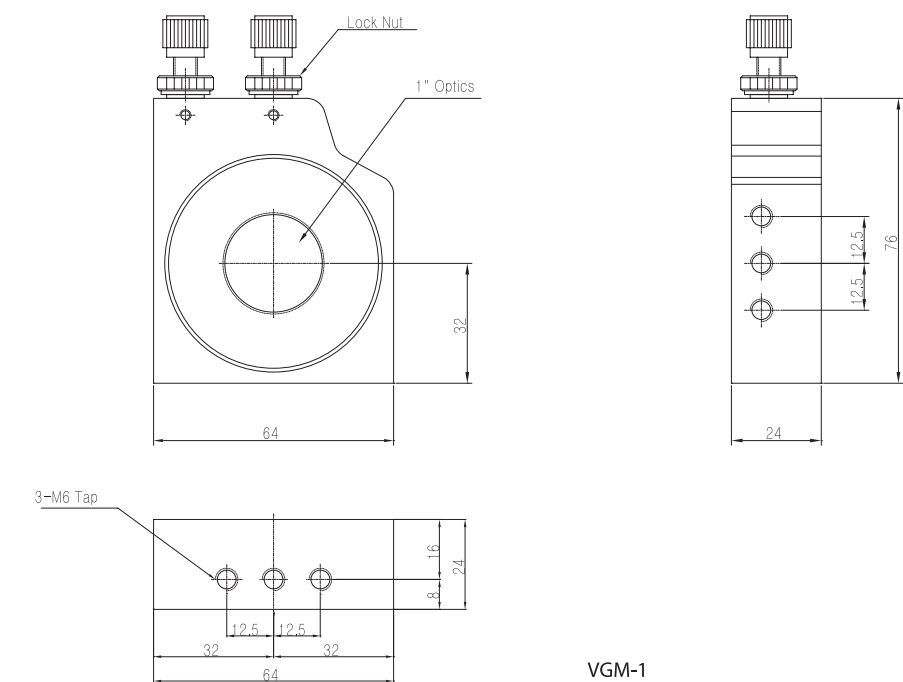
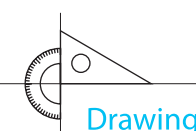


Model	MGM-6
Mirror Size (mm)	$\varnothing 152.4$ (6.0")
Size (mm)	A 306
	B 64
	C 270.5
	D 166
Tilt & Rotation	$\pm 3^\circ$
Manual Rotation	$\pm 50^\circ$
Adjustment Drives	2-Axis Micrometer Head
Material(Treatment)	Aluminium(Black Anodized)
Holes Pattern	M3, M6 TAP

Vertical Gimbal Mount



- True Gimbal design.
- Compact vertical design fits into tight spaces.
- Location the optical surface directly on the axes of rotation.



Model	VGM-1
Optic Diameter	$\varnothing 25.4$
Size(mm)	64×76×24
Angular Range	$\pm 2^\circ$
Adjustment Drive	2 Axis 80-Pitch Screws
Material(Treatment)	Aluminum (Black Anodized)
Holes Pattern(Top)	M3-Tap, M6-Tap
Holes Pattern(Bottom)	M3-Tap, M6-Tap



Polarizer & Rotation Stage

Waveplate / Polarizer Gimbal Mounts

Polarizer Tilt Mounts

Micro Rotation Stage

360° Continuous Rotation Stage

Polarizer Mounts

Compact Rotation stage

Rotation Stage

Polarizer Holders

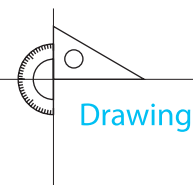
Polarizer Holder Adapter

Cage Rotation Mount

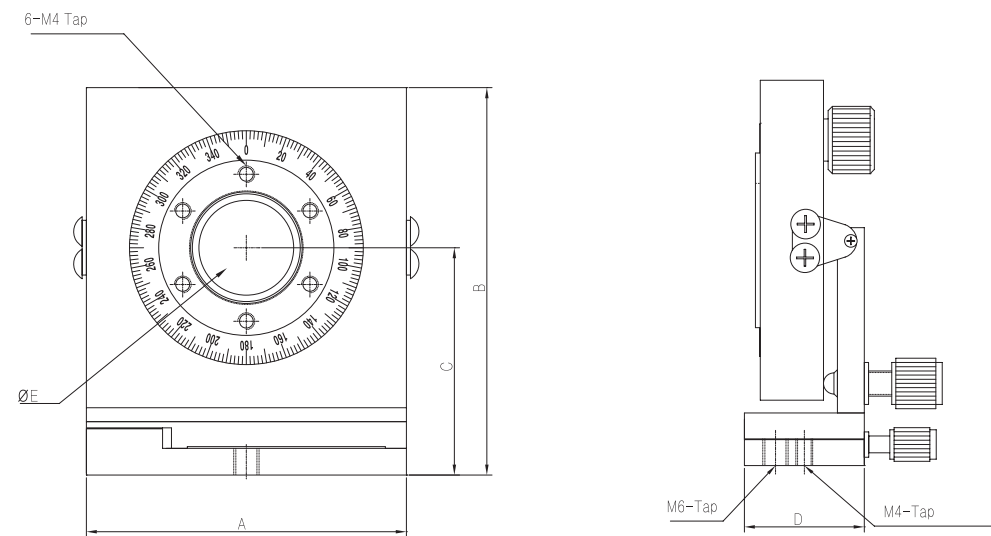
Waveplate / Polarizer Gimbal Mounts



- Adjust minutely Tilt and Rotation with $\pm 8.5^\circ$ to rise with a gimbal form at optial axes fixed.
- Structure to be able to tighten optics by a fixed dragon volt after 360° rotation one.



Drawing



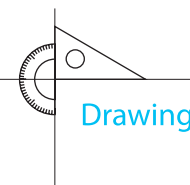
WPG

Model		WPG-1R	WPG-2R	WPG-3R
Size (mm)	AXB	76×92	98×118	120×143
	C	54	69	83
	D	28.5	50.8	50.8
Lens Dimension	E	Ø25.4	Ø50.8	Ø76.2
Adjustment Range	Tilt $\pm 8.5^\circ$ / Rotation 360°			
Adjustment Drive	80-Pich Screw			
Material (Treatment)	Aluminum (Black Anodized)			
Holes Pattern	M4-Tap, M6-Tap			
Mounting Base With		GBP-4	GBP-5	GBP-5

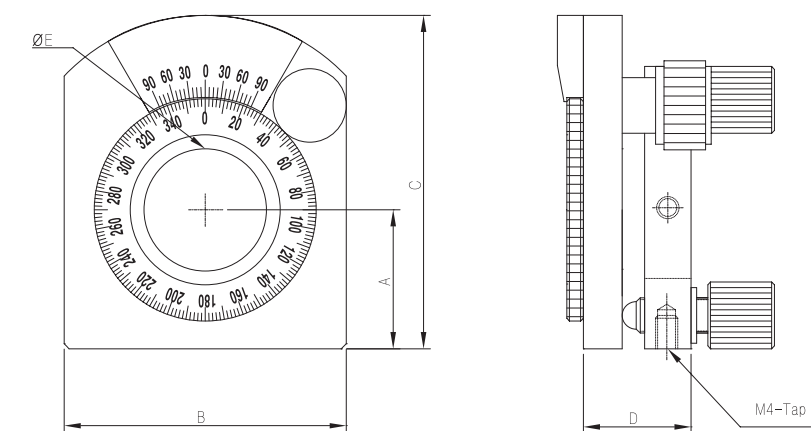
Polarizer Tilt Mounts



- Waveplate and Polarizer 360° Rotation.
- Minuteness adjustment possibility with tilt $\pm 8^\circ$ of an angle.



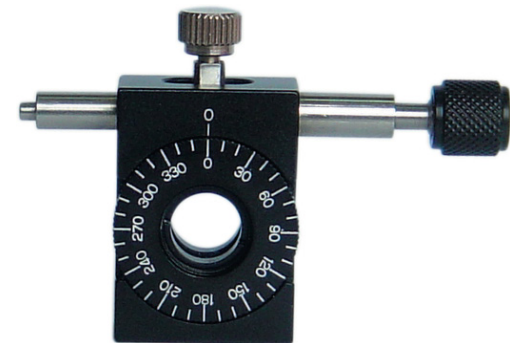
Drawing



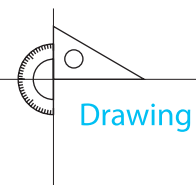
PTM

Model		PTM-1R	PTM-2R
Size (mm)	A	25.4	38.1
	B	50.8	76.2
	C	60	87.1
	D	19.4	20
Lens Dimensions	E	Ø25.4	Ø50.8
Adjustment Range	Tilt $\pm 8^\circ$ / Rotation 360°		
Adjustment Drive	2 Axis 80-Pitch Screws		
Material (Treatment)	Aluminum (Black Anodized)		
Holes Pattern	M4-Tap		

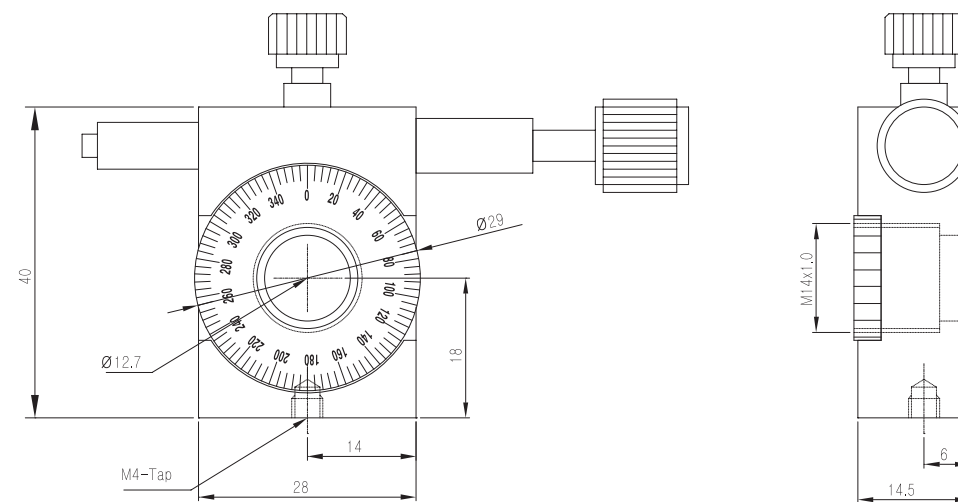
Micro Rotation Stage



- Manually 360° rotation.
- Fine adjustment to screw permanent a fixed device.



Drawing



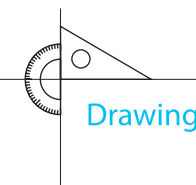
MR-05

Model	MR-05
Size (mm)	28x40
Lens Dimensions	Ø12.7
Graduation	4°
Adjustment Range	Continuous 360° Manual Rotation, Precision Rotation 10° Micrometer
Material (Treatment)	Aluminum (Black Anodized)
Holes Pattern	M4-Tap

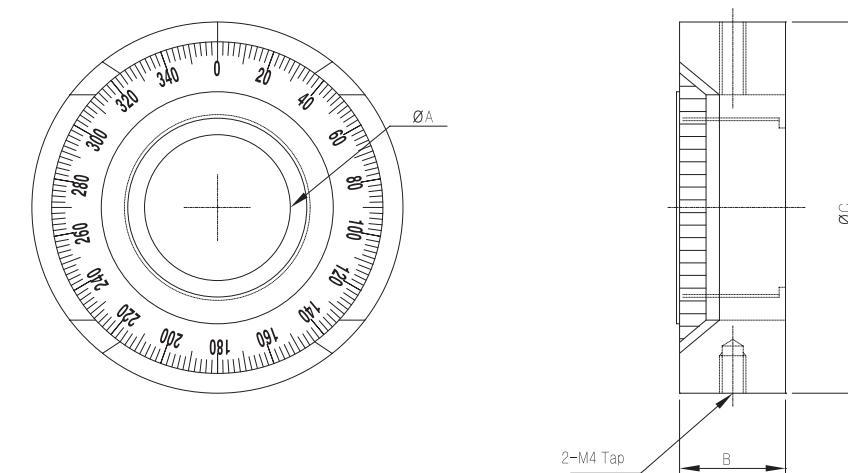
360° Continuous Rotation Stage



- Waveplate and Polarizer 360° Rotation angle indication.
- Fixed possibility after angle adjustment.



Drawing



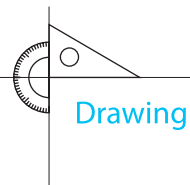
CRS-05 / CRS-1

Model	CRS-05	CRS-1
Lens Diameter	A	Ø12.7
Size (mm)	B	16
	C	44
Graduation	2°	
Adjustment Range	Continuous 360° Rotation	
Material (Treatment)	Aluminum (Black Anodized)	
Holes Pattern	M4-Tap	

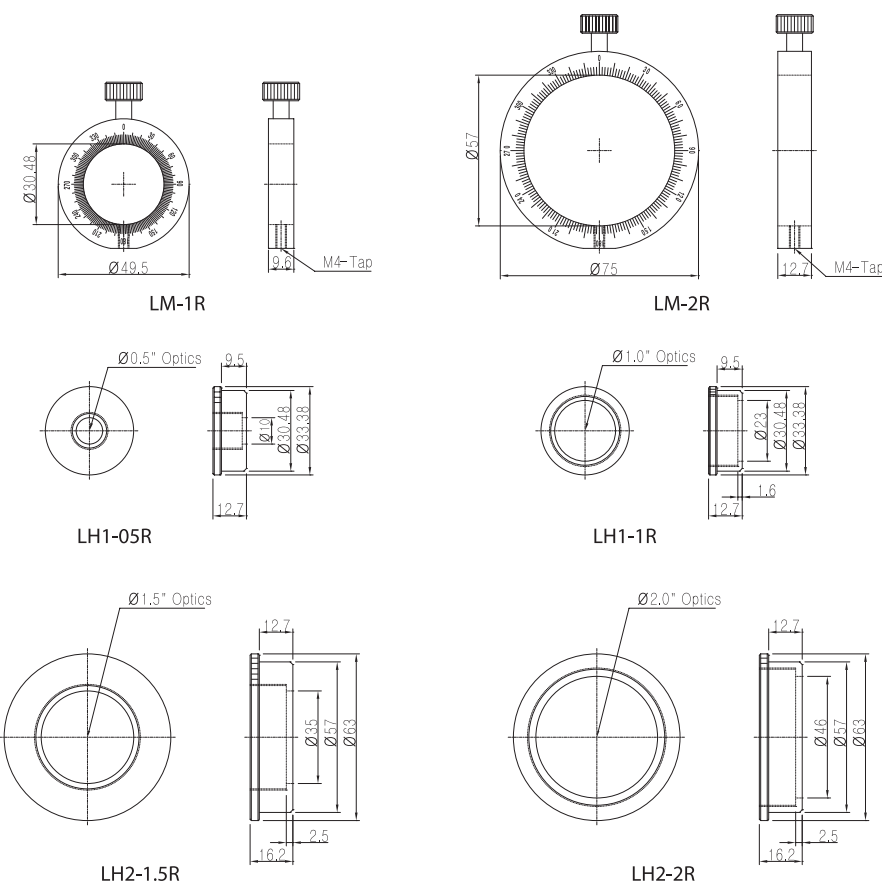
Polarizer Holders



- Features locking capability.
- Holders for rotating a wavelength plate, polarization prism, polarizing plate, or the like within a specific plane.



Drawing

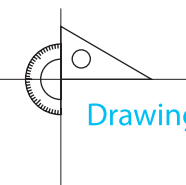


Model	LM-1R	LM-2R	LH1-05R	LH1-1R	LH2-1.5R	LH2-2R
Diameter	Ø30.48	Ø57	Ø12.7 (0.5")	Ø25.4 (1.0")	Ø38.1 (1.5")	Ø50.8 (2.0")
Description	Lens Mount		Lens Holder			
Material(Treatment)	Aluminum (Black Anodized)					
Holes Pattern	M4-Tap		-			

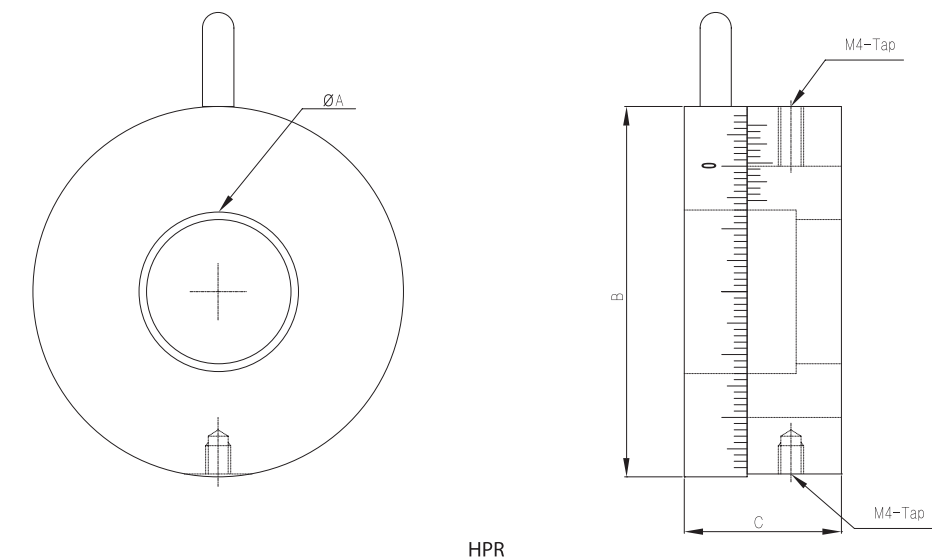
Polarizer Holders



- Compose so as to be able to measure minutely Wave Plate and Polarizer.
- Angle indication on the side.



Drawing

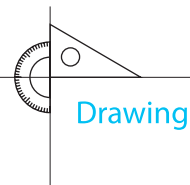


Model		HPR-1	HPR-2
Lens Diameter	A	Ø25.4	Ø50.8
Size (mm)	B	Ø59	Ø80
	C	25	26
Graduation		1°	
Adjustment Range		Rotation 360°	
Material (Treatment)		Aluminum (Black Anodized)	
Holes Pattern		M4-Tap	

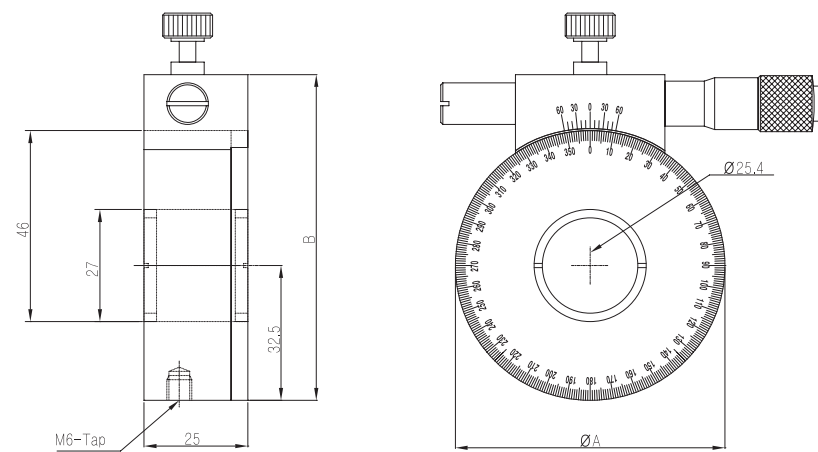
Polarizer Mounts



- Wave Plate and Polarizer 360° rotation possibility to rise.
- 15° adjustment possibility as it attaches a micrometer.



Drawing



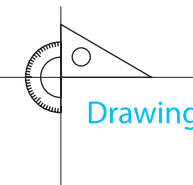
HPT-1 / HPT-1.5 / HPT-2

Model		HPT-1	HPT-1.5	HPT-2
Size (mm)	ØA	Ø65	78	Ø90
	B	78.5	93	115
Lens Dimensions		Ø25.4	Ø38.1	Ø50.8
Graduation		1°		
Adjustment Range		Manual 360° Rotation, Precision Rotation 15° Micrometer		
Material (Treatment)		Aluminum (Black Anodized)		
Holes Pattern		M4-Tap		

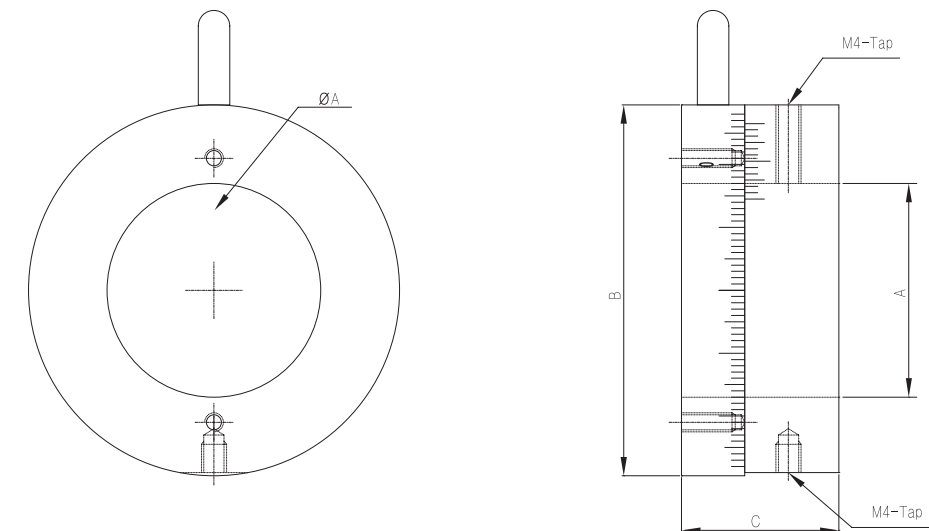
Polarizer Holders



- Manual 360° rotation with 1° resolution.
- Post mountable.
- Adaptor (PHA Series) mountable.



Drawing



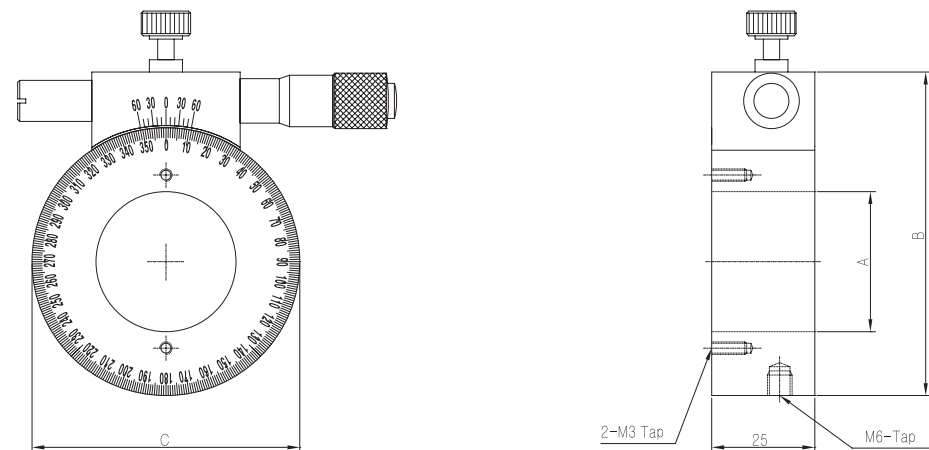
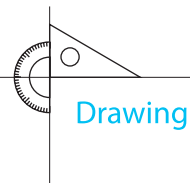
PHR-1 / PHR-2

Model		PHR-1	PHR-2
Lens Diameter	A	Ø34	Ø54
Size (mm)	B	Ø59	Ø80
	C	25	26
Graduation		1°	
Adjustment Range		Rotation 360°	
Material (Treatment)		Aluminum (Black Anodized)	
Holes Pattern		M3, M4-Tap	

Polarizer Mounts



- Manual 360° rotation with 1° resolution.
- Post mountable.
- Adaptor (PHA Series) mountable.

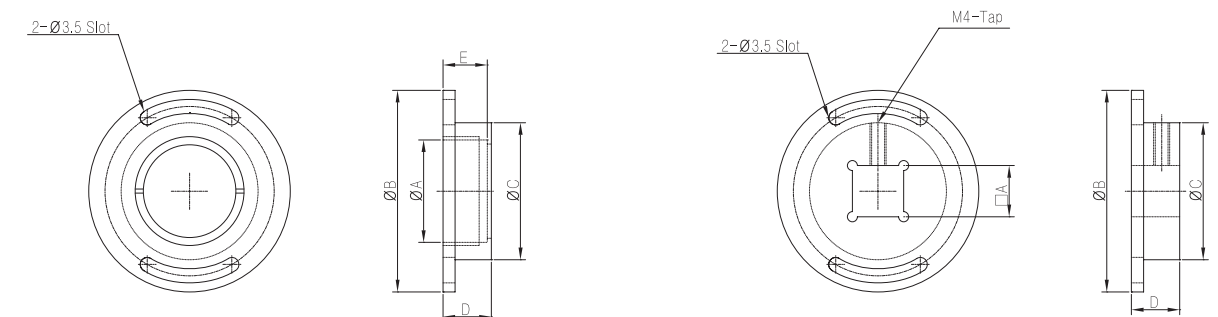
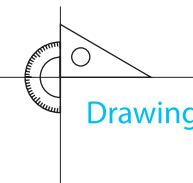


PHM-1 / PHM-2

Model		PHM-1	PHM-2
Size (mm)	A	Ø34	Ø54
	B	78.5	115
	C	Ø78	Ø96
Lens Dimensions		Ø25.4	Ø50.8
Graduation		1°	
Adjustment Range		Continuous 360° Manual Rotation, Precision Rotation 15° Micrometer	
Material (Treatment)		Aluminum (Black Anodized)	
Holes Pattern		M3, M6-Tap	

Polarizer Holder Adaptors

- Mountable Polarizer Holder.
- Suitable for near-infrared polarizer and retardation plates.



PHA-05 / PHA-1

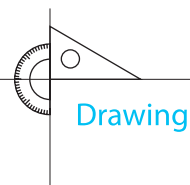
PHA-05S / PHA-1S

Model		PHA-05	PHA-1	PHA-05S	PHA-1S
Lens Dimensions	A	Ø12.7	Ø25.4	12.7×12.7	25.4×25.4
Size(mm)	B	Ø50	Ø50	Ø50	Ø50
	C	Ø34	Ø34	Ø34	Ø34
	D	12	12	12	12
	E	7	10	-	
Material(Treatment)		Aluminum (Black Anodized)			
Holes Pattern		Ø3.5-Slot		M4-Tap, Ø3.5-Slot	

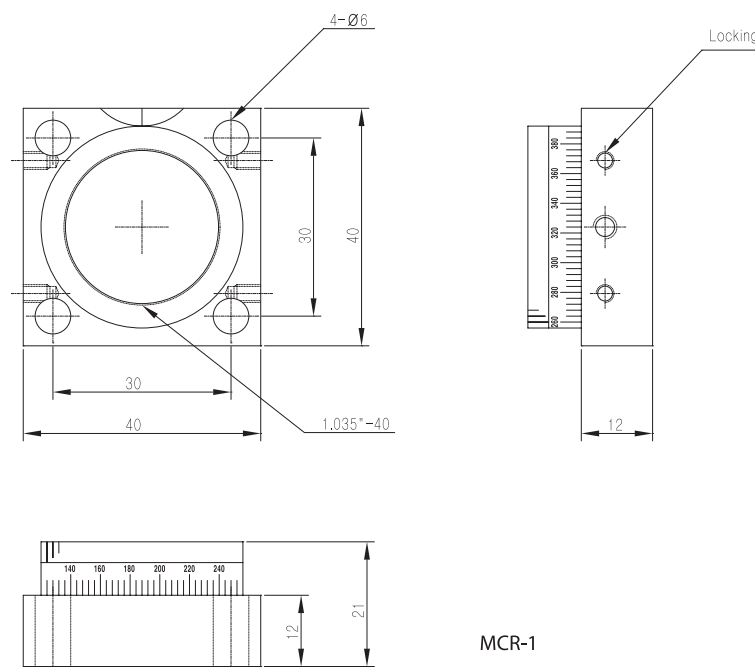
Cage Rotation Mount



- 2° Graduations per dial.
- 360° continuously rotation.
- Compatible with the Cage System.



Drawing

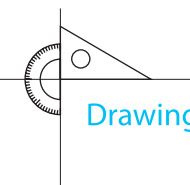


Model	MCR-1
Lens Dimensions	Ø25.4
Size(mm)	40×40×21
Graduation	2°
Adjustment Range	Continuous 360° Rotation
Material(Treatment)	Aluminum (Black Anodized)
Holes Pattern	Ø6, M4-Tap

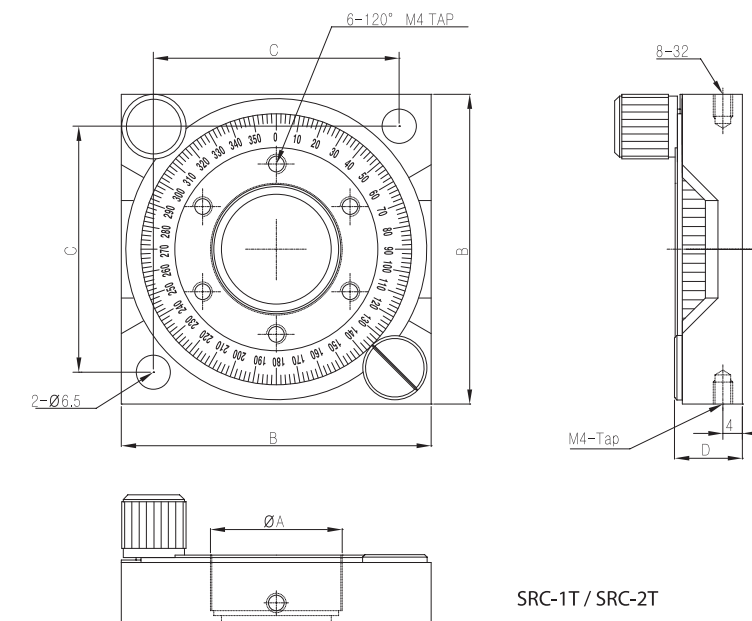
Compact Rotation Stage



- Ideal for small polarizing optics.
- Slip clutch gives quick coarse adjustment.
- Divide 360° equally, and it is a division carved seal.

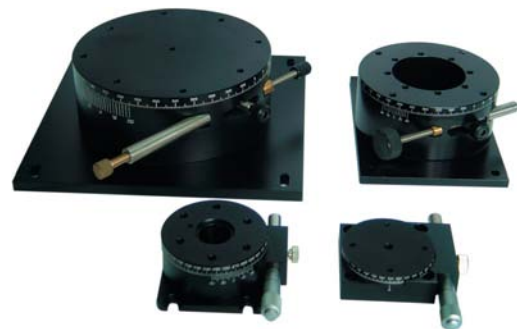


Drawing

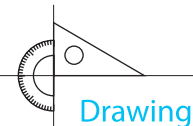


Model	SRC-1T	SRC-2T
Lens Diameter	A	Ø25.4
Size (mm)	B	63.5
	C	50
	D	14
		20
Graduation	1°	
Adjustment Range	Continuous 360° Rotation	
Material (Treatment)	Aluminum (Black Anodized)	
Holes Pattern(Top)	M4×0.7	
Holes Pattern(Bottom)	Ø6.5	

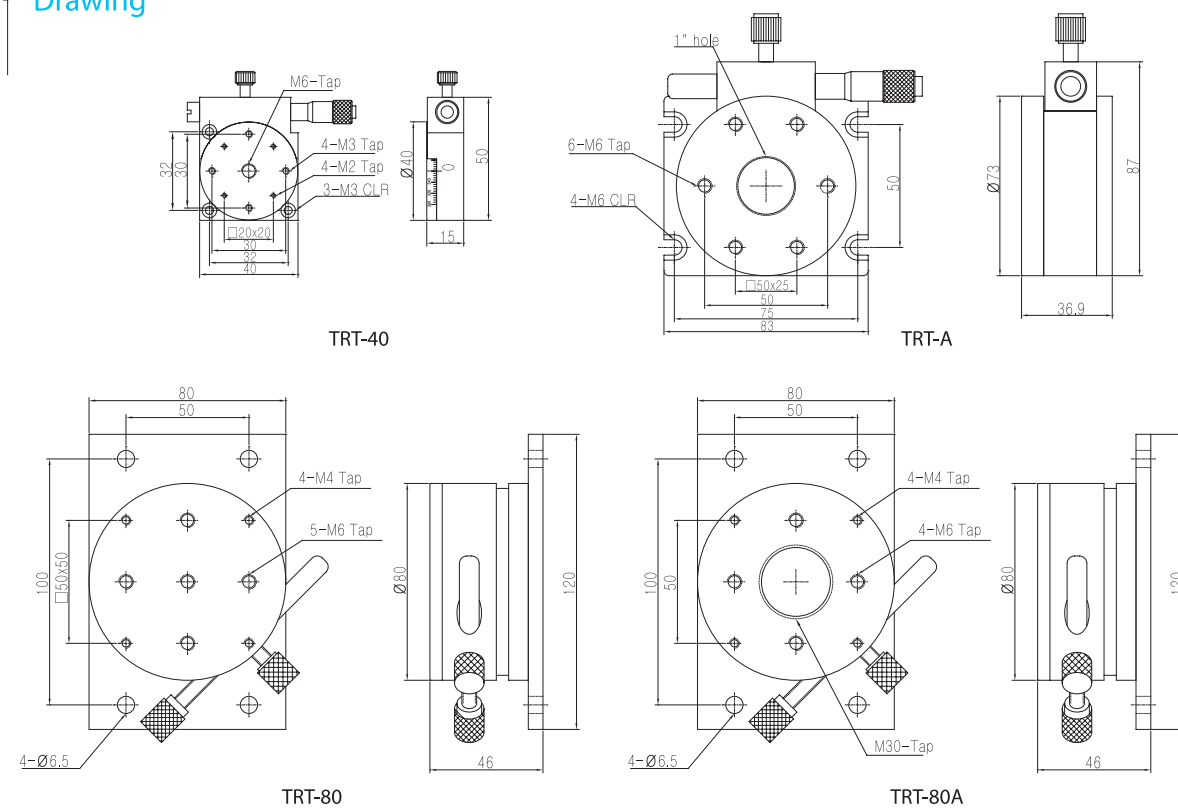
Rotation Stage



- 360° coarse rotation.
- Convenient array of tapped mounting holes.
- Mounts Horizontally or Vertically.

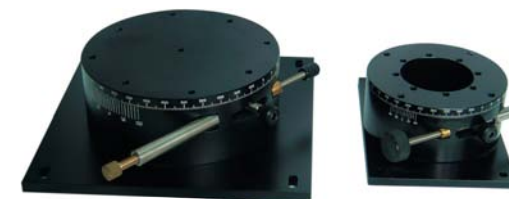


Drawing

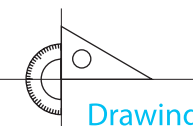


Model	TRT-40	TRT-A	TRT-80	TRT-80A
Size (mm)	40×50	83×87	80×120	
Stage Size (Top)	Ø40	Ø73	Ø80	
Adjustment Range	Manual 360° Rotation, Precision Rotation ±2.5° Adjustment Screw	Manual 360° Rotation, Precision Rotation ±5° Adjustment Screw		
Material (Treatment)	Aluminum (Black Anodized)			
Holes Pattern (Top)	M2,M3,M6-Tap	M6-Tap	M4,M6-Tap	Ø18,M4,M6-Tap
Holes Pattern (Bottom)	M3-CLR	M6-CLR	Ø6.5	

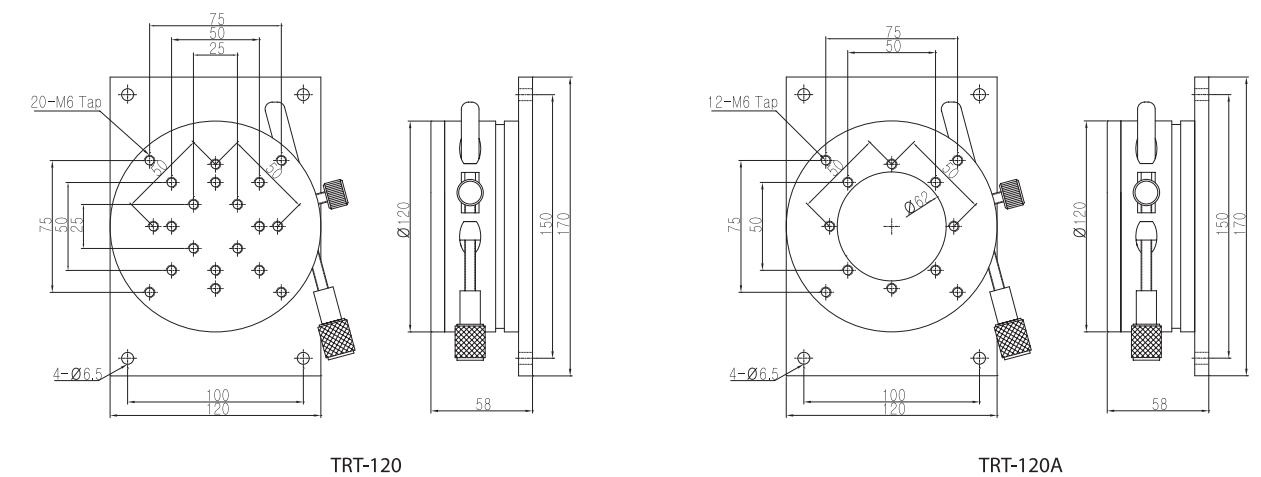
Rotation Stage



- 360° coarse manually.
- Convenient array of tapped mounting holes.
- Mounts Horizontally or Vertically.



Drawing



Model	TRT-120	TRT-120A
Size (mm)	120×80	
Stage Size (Top)	Ø120	
Adjustment Range	Manual 360° Rotation, Precision Rotation ±5° Adjustment Screw	
Material (Treatment)	Aluminum (Black Anodized)	
Holes Pattern (Top)	M6-Tap	Ø62,M6-Tap
Holes Pattern (Bottom)	Ø6.5	



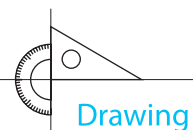
Tilt Rotation Stage

Tilt Rotation Stage
Four-Axis Tilt Stage
Goniometers
2-Axis Gonio Stage
Tilt Rotation Mounts

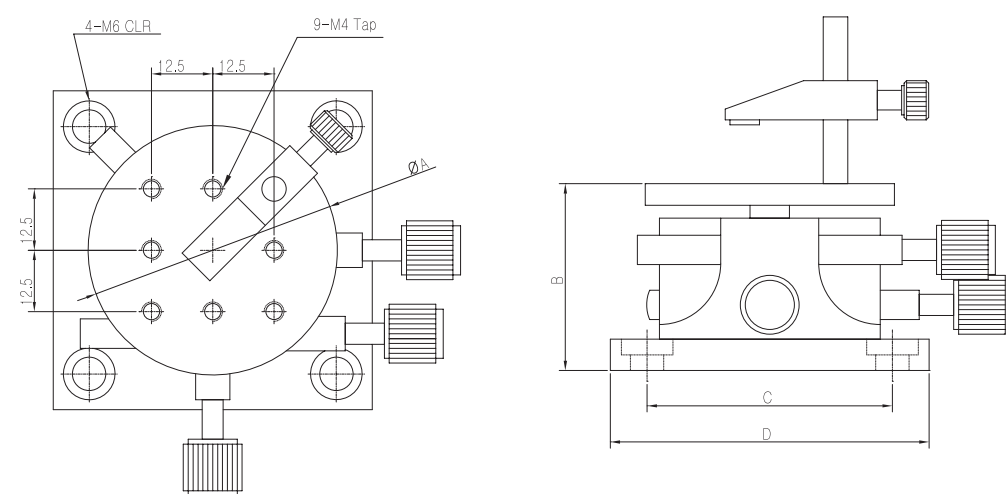
Tilt Rotation Stage



- Fix a prism on tables, and it is minutely rotation and angle adjustment.



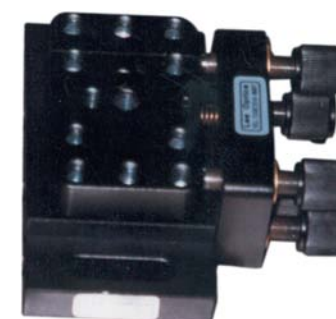
Drawing



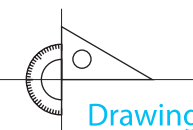
TRS-2 / TRS-4

Model		TRS-2	TRS-4
Stage Size (Top)	A	Ø50.8	Ø90
Size (mm)	B	38.1	64
	C	50	100
	D	65	115
Adjustment Range		Tilt $\pm 7^\circ$ / Rotation 8°	
Load Capacity		5 kg	10 kg
Material (Treatment)		Aluminum (Black Anodized)	
Holes Pattern (Top)		M4-Tap	
Holes Pattern (Bottom)		M6-CLR	

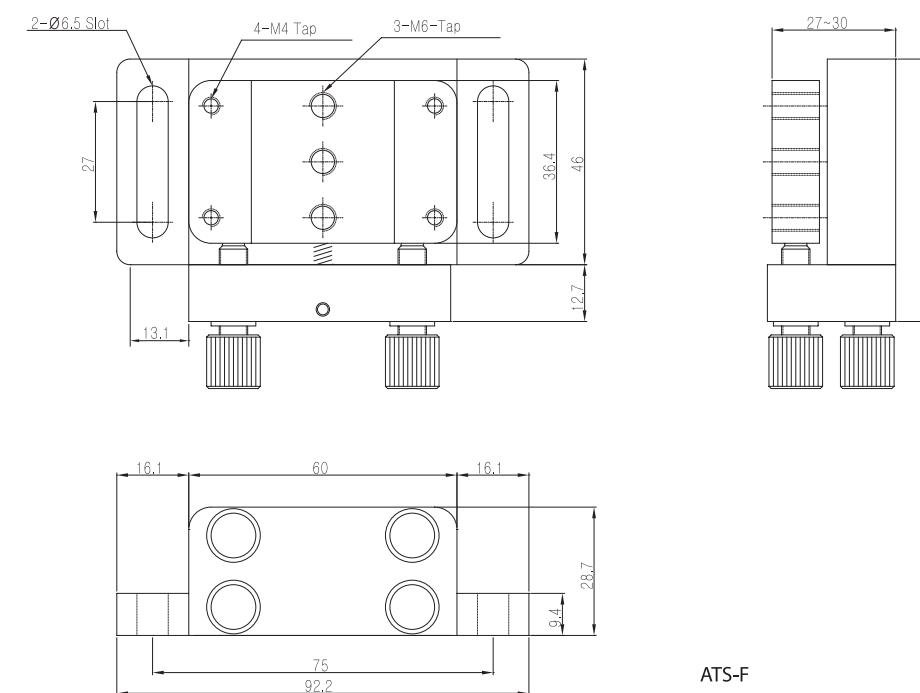
Four-Axis Tilt Stage



- Rotation function.
- Fine-Threaded Thumbscrew Drives.



Drawing



ATS-F

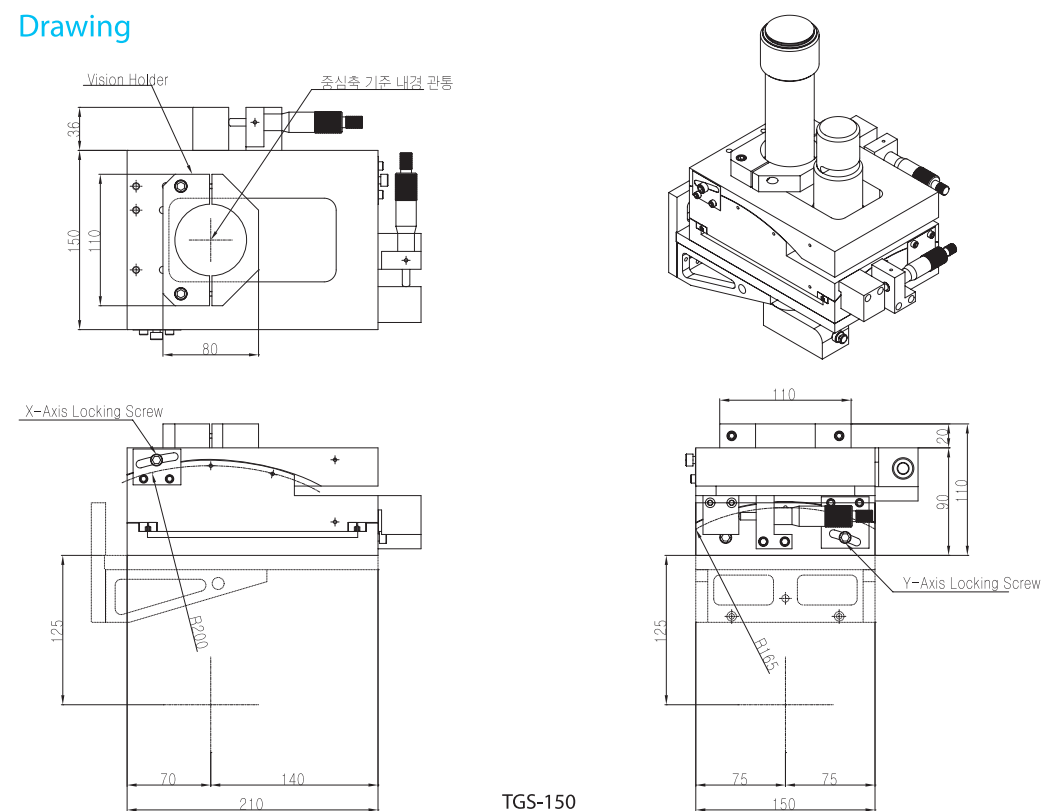
Model	AST-F
Size(mm)	92.2×58.7
Top Size(mm)	60×36.4
Adjustment Range	8°
Adjustment Drive	4 Axis 80-Pitch Screws
Material(Treatment)	Aluminum (Black Anodized)
Holes Pattern	M4-Tap, Ø6.5 Slot

2-Axis Gonio Stage



- A Goniometer focus does not change.
- Travel range $\pm 3^\circ$
- Standard Type Micrometer Driver 10 μm
- 주문자 Type → Worm Gear Type
Lead Screw (미세조정)

Drawing



TGS-150

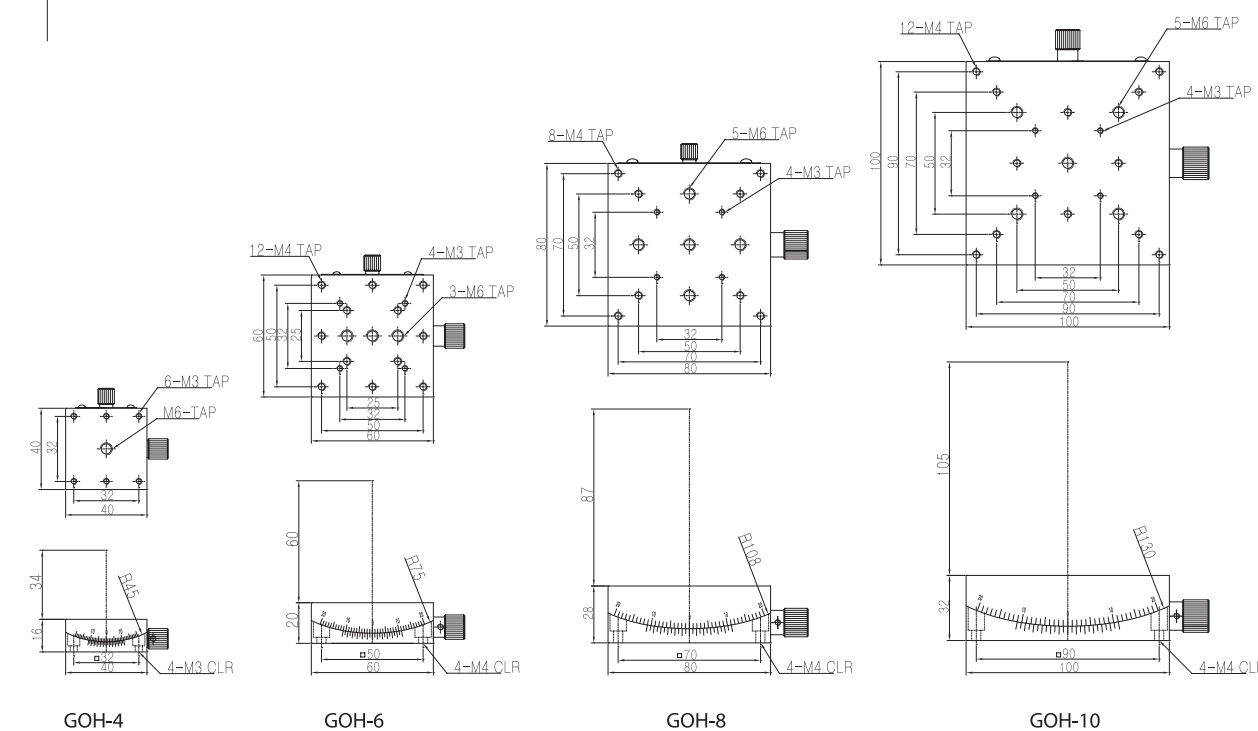
Model	TGS-150
Size (mm)	150×150×30
Travel Range	±3°
Travel Guide	Micrometer Head
Adjustment Drive	2-Axis Micrometer Head
Load Capacity	15kg
Material (Treatment)	Aluminium (Black Anodized)
Weight	4kg
Mounting Bracket Option	8-M6 CLR

Goniometers



- Choice of precision actuators.
- $\pm 0 \sim 30^\circ$ of rotation about a point in space.
- Drive axis the center to a dovetail guide and a worm gear.

Drawing

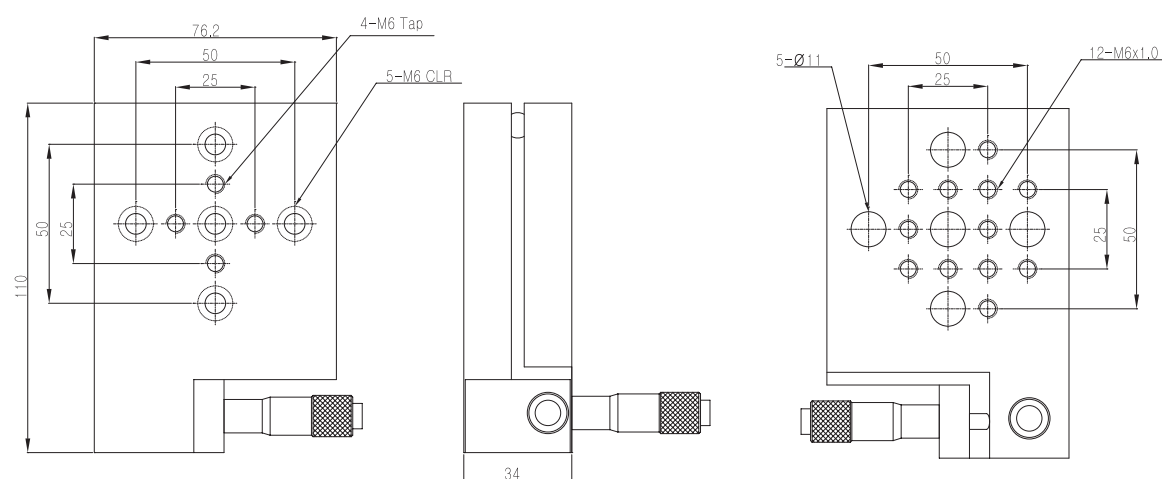
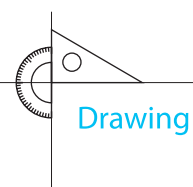


Model	GOH-4	GOH-6	GOH-8	GOH-10
Stage Size(Top)	40x40	60x60	80x80	100x100
Rotation Center(mm)	34	60	87	105
Angular Range(Degrees)	±20°	±15°		
Load Capacity	3kgf	5kgf		8kgf
Material(Treatment)	Aluminum (Black Anodized)			
Holes Pattern(Top)	M3,M6-Tap	M3,M4,M6-Tap		
Holes Pattern(Bottom)	M3-CLR	M4-CLR		

Tilt Rotation Mounts



- Stable, kinematic designs.
- 2-axis tilt and tilt/rotation version.
- Generous array of mounting holes.



PTR-6

Model	PTR-6
Size (mm)	110×76.2
Adjustment Range	Tilt $\pm 7^\circ$ / Rotation $\pm 2.5^\circ$
Material (Treatment)	Aluminum (Black Anodized)
Holes Pattern (Top)	M4-Tap
Holes Pattern (Bottom)	M6-CLR



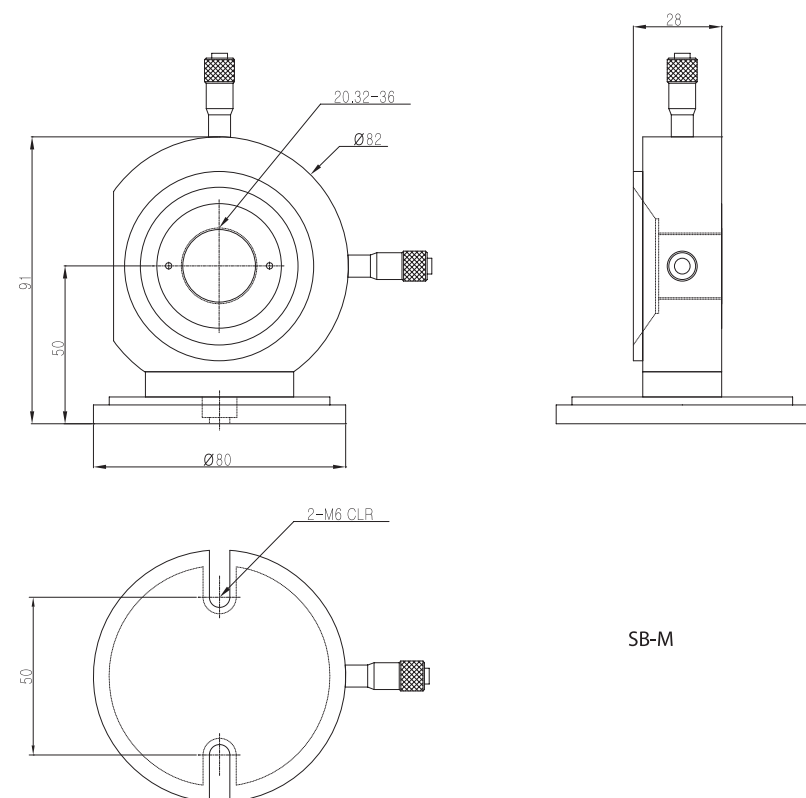
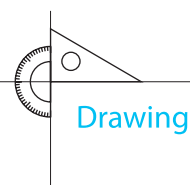
XY Positioner

Two-Axis Positioner
Two-Axis Lens Mounts
Translating Lens Mounts
Focusing XYZ Translators

Two-Axis Positioner



- Objective lense(20.32-36) mounting possibility.
- Minuteness adjustment possibility to Micrometer Driver in order to fit an optial axis.

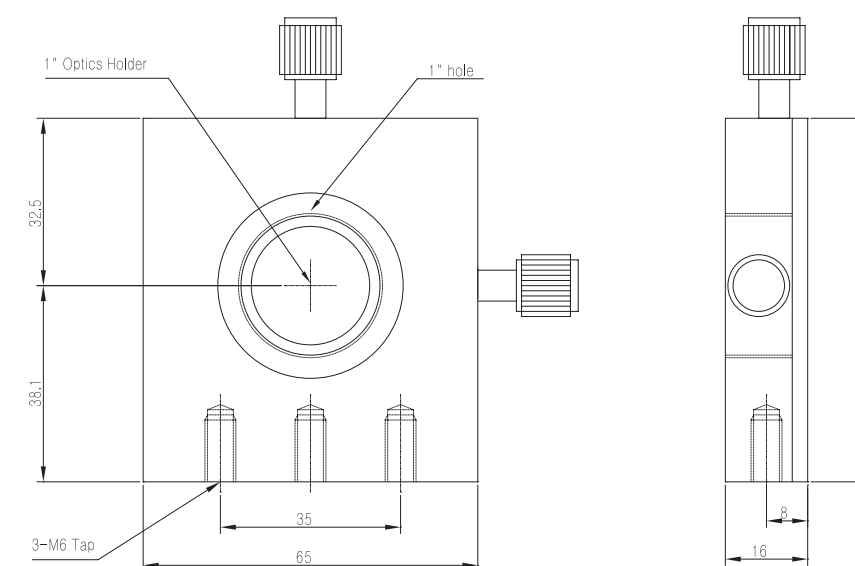
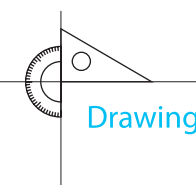


Model	SB-M
Size (mm)	Ø80x91
Adjustment Range	XY: ± 2
Adjustment Drive	Micrometers
Description	Microscope Objective Lens
Material (Treatment)	Aluminum (Black Anodized)
Holes Pattern	M6-Slot

Two-Axis Lens Mounts



- The form that can equip 1" optics.
- Minute adjustment possibility to screw in order to fit an optial axis.

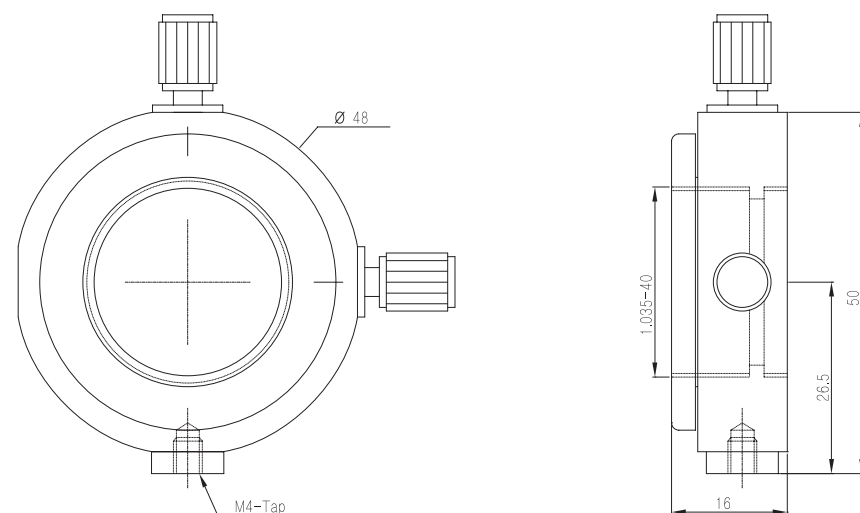
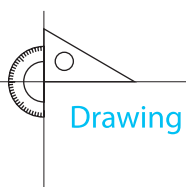


Model	CMT-6
Optic Diameter	Ø25.4
Size (mm)	65x70.6
Adjustment Range	XY : 6mm
Adjustment Drive	2 Axis 80-Pitch Screws
Holes Pattern	M6-Tap

Translating Lens Mounts



- 1" Optics Mounting.
- XY Holes Minute adjustment ± 1 mm
- Rotation 360°



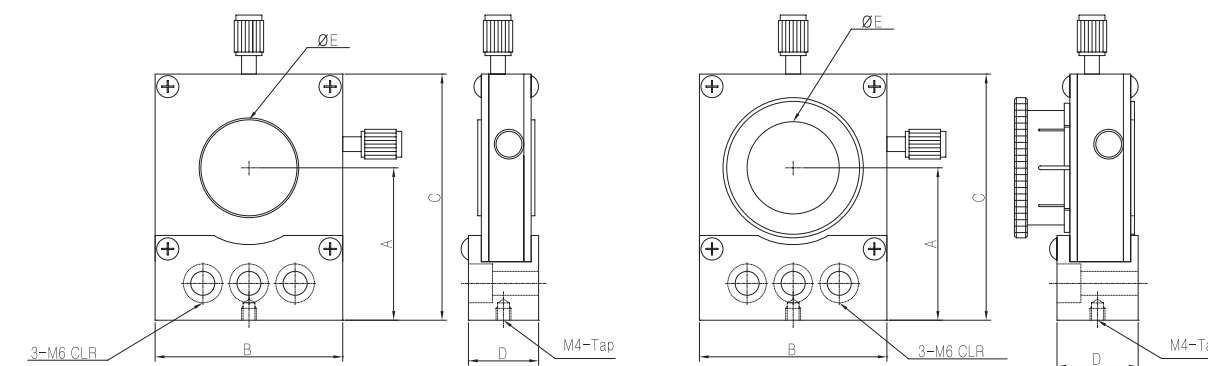
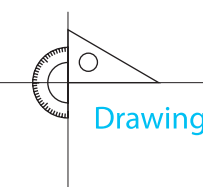
TLM-1XY

Model	TLM-1XY
Lens Dimensions	Ø25.4
Travel Range (mm)	XY: ± 1
Adjustment Drive	80-Pitch Screw
Material (Treatment)	Aluminum (Black Anodized)
Holes Pattern	M4-Tap

Focusing XYZ Translators



- Minuteness adjustment to XY,XYZ axis.
- Objective lense 1" or below use adaptor.



LFT-05XY / LFT-1XY

LFT-05XYZ / LFT-1XYZ

Model		LFT-05XY	LFT-05XYZ	LFT-1XY	LFT-1XYZ
Size (mm)	A	41.3		54	
	B	50		76	
	C	67.5		92	
	D	19		28.5	
Lens Dimensions	E	Ø12.7		Ø25.4	
XY Range(mm)		3		6	
Z Range (mm)			6		6
Adjustment Drive		80-Pitch Screw			
Mounting Base With		GBP-3		GBP-4	
Material (Treatment)		Aluminum (Black Anodized)			
Holes Pattern		M4-Tap, M6-Tap			