	Positioner on the topside ${\mathbb Q}$	Linear16-z	Linear16-x
	Linear16-z		
Piezoelectric Motion -	Linear16-x	V	$\checkmark$
c Mot	Linear25		
ion - L	Linear35		
	Rotator16		
	Rotator25		

Positioner on the topside $\sqrt[n]{}$	Linear16-z	Linear16-x	Linear25	Linear35	Rotator16	Rotator25	Rotator35	Goniometer25	Gonimeter35	Scanner16	Scanner25
Linear16-z			AP.LT.L16z	AP.LT.L16z		AP.LT.L16z	AP.LT.L16z	AP.LT.L16z			AP.LT.L16z
Linear16-x	$\checkmark$	✓	V	<ul> <li>✓</li> </ul>		$\checkmark$	V	V	$\checkmark$		AP.LT.L16x
Linear25			$\checkmark$	$\checkmark$			V	*	*		*
Linear35				$\checkmark$					*		
Rotator16						AP.LT.R16	AP.LT.R16	AP.LT.R16	AP.LT.R16		
Rotator25			V	V			*	*	*		*
Rotator35				$\checkmark$					*		
Goniometer25			V	V			V	V	*		*
Goniometer35				$\checkmark$					$\checkmark$		
Scanner16	V	$\checkmark$	AP.LT.S16	AP.LT.S16				AP.LT.S16	AP.LT.S16		AP.LT.S16
Scanner25			$\checkmark$	$\checkmark$				$\checkmark$	$\checkmark$		
Positioner on the bottom ⇨	Linear16-z	Linear16	Linear25	Linear35	Rotator16	Rotator25	Rotator35	Goniometer25	Gonimeter35	Scanner16	Scanner25

This table gives a comprehensive guide for two same or different positioners connect to each other. The left column positioners are selected on topside, while the top row positioners are selected as the bottom one. There are three conditions when two MultiFields Positioners Mount together, including

(1)  $\checkmark\,$  do not need extra plate to connect.

(2) \* do not need extra plate to connect. Though this mounting form is workable in specific cases, we don't recommend this connection arrangement.

(3) " AP.LT.\*\*\*\* " the part name of adapter plates needed to connect with each other.

(4) "Blank-cell", means this mounting form should be avoid.

## Accessaries - Adapter Plate - Interconnect

Piezoelectric Motion - Low temperature series - Accessaries

#### Adapter plates designed for MultiFields piezoelectric motion units



#### Adapter Plates for MultiFields Piezoelectric Positioners

	Part Name	Discription
Linear16-z	AP.LT.L16z	Adapter Plate Used to mount Linear16-z on other MultiFields positioners
Linear16-x	APITI 16x	Adapter Plate Used to mount Linear16-x on other MultiFields positioners
Rotator16	AP.LT.R16	Adapter Plate Used to mount Rotator16 on other MultiFields positioners
Scanner16	AP.LT.L25	Adapter Plate Used to mount Scanner16 on other MultiFields positioners

Adapter Plates are Used to Mount MultiFields Piezoelectric Positioners with Cross-mounting of Different Series Positioners.

1. All the adapter plates are fabricated by pure Ti metal.

2. Non-magnetic screws are included when you purchase the adapter plate set.

## Accessaries - Adapter Plate - Vertical Orientation

Piezoelectric Motion - Low temperature series - Accessaries

Adapter plates designed for mounting MultiFields motion units with vertical orientation



Adapter Plates are Used to Mount MultiFields Piezoelectric Positioners with Vertical Orientation.
1. All the adapter plates are fabricated by pure Ti metal.
2. Non-magnetic screws are included when you purchase the adapter plate set.
3. All the positioners, which are able to be used when it is tilted 90° , have been listed following. The absent ones mean
they are not recommended to be tilted by 90°

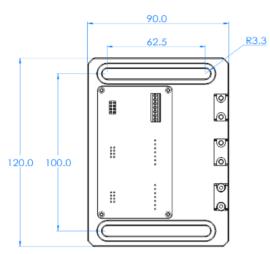
#### Adapter Plates for MultiFields Piezoelectric Positioners

	Part Name	Discription
Linear16-z	AP.LT.L16z-v	Adapter Plates Used to Title Linear16-z by 90°
Linear16-x	AP.LT.L16x-v	Adapter Plates Used to Title Linear16-z by 90°
Rotator16	AP.LT.R16-v	Adapter Plates Used to Title Rotator16 by 90°
Linear25	AP.LT.L25-v	Adapter Plates Used to Title Linear25 by 90°
Linear35	AP.LT.L35-v	Adapter Plates Used to Title Linear35 by 90°
Rotator25	AP.LT.R25-v	Adapter Plates Used to Title Rotator25 by 90°
Rotator25.Optic	AP.LT.R25.Optic-v	Adapter Plates Used to Title Rotator25.Optic by 90°
Rotator35	AP.LT.R35-v	Adapter Plates Used to Title Rotator35 by 90°
Goniometer25	AP.LT.G25-v	Adapter Plates Used to Title Goniometer25 by 90°
Goniometer35	AP.LT.G35-v	Adapter Plates Used to Title Goniometer35 by 90°

### Accessaries - Adapter Plate - PinsPlate

Piezoelectric Motion - Low temperature series - Accessaries

# An adapter for MultiFields LT Motion Units to directly connect on an optic table.





AP.LT.PinsPlate

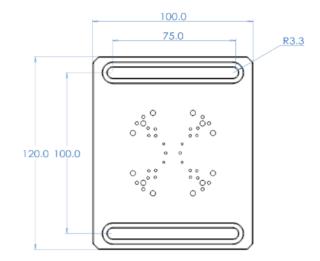


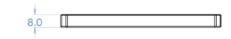
\* Real photos of AP.LT.PinsPlate, the cable in photo is PMC.cable supplied by MultiFields

## Accessaries - Adapter Plate - Installation Plate

Piezoelectric Motion - Low temperature series - Accessaries

# An adapter for MultiFields LT Motion positioners to directly connect on an optic table.





AP.LT.InstPlate



\* Real photos, Combination of AP.LT.PinsPlate,

### Accessaries - Flexible Thermal Connection Set

Piezoelectric Motion - Low temperature series - Accessaries



FTC##.L\*\*

Elexible thermal connection set are used to keep sample cold when piezoelectric positions moving in vacuum environment . Higher thermal conductivity is always welcomed in low temperature experiments for a lower base temperature. And a flexible structure guarantees the device won't consumes excessive load capacity.

1. All the adapter plates are fabricated by pure non-magnetic metal.

2. Non-magnetic screws are included when you purchase the flexible thermal connection set.

Flexible Thermal	Connection	Set for Positioners
riexible merma	Connection	Set for Fositioners

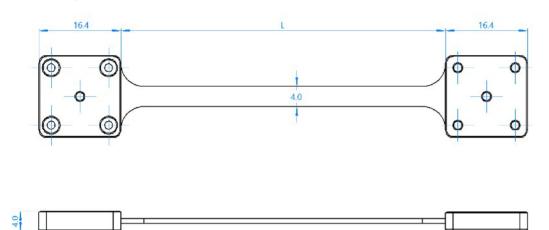
Description	Designed for 16mm Linear and Scanner series stack	Designed for 25mm Linear and Scanner Series Stack	Designed for 35mm Linear, Goniometer and Scanner Series Stack		
Size & Dimensions					
Footprint base plate	16 × 16 mm	25 × 25mm	35 × 35mm		
Footprint top plate	16 × 16 mm	25 × 25mm	35 × 35mm		
thickness, base plate		2.5 mm			
Thickness, top plate		4 mm			
Length copper coupling foil		5 mm; 65 mm; 100 mm versio	n		
Working Conditions					
Temperature range	10 mK to 420 K				
Pressure conditions	Ambient, HV, UHV				
Use in magnetic field	max. 35 Tesla				
Cernox Sensor & Heater (optional)					
Temperature Range		1.6 K to 350 K			
Wires	Thermometers, 4 Pins; Heater, 2pins; Pure copper wires,36 awg				
Heater Resistance	50 Ohm				
Heater Power		Max. 50W			
Thermal Conductivity @300 K		FTC**.035mm, 40 mW/K FTC**.065mm, 29 mW/K FTC**.100mm, 16 mW/K			

# Accessaries - Flexible Thermal Connection Set

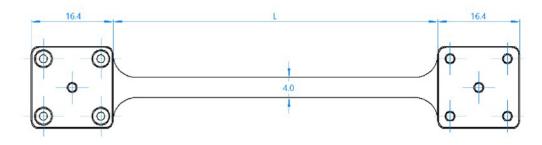
Piezoelectric Motion - Low temperature series - Accessaries

#### 2D Drawings with size and screw details

#### 2D drawings



FTC16.L\*\*.xx series





FTC35.L\*\*.xx series

FTC25.L\*\*.xx series

• FTC25.L35.xx

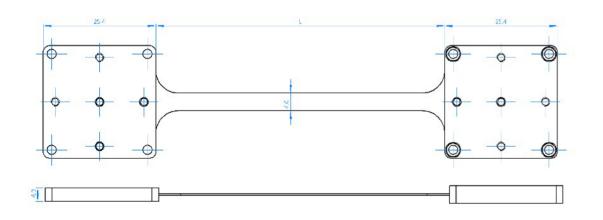
• FTC25.L65.xx

• FTC25.L100.xx

• FTC25.L35.xx.CX

• FTC25.L65.xx.CX

• FTC25.L100.xx.CX



FTC25.L\*\*.xx series

#### FTC##. L\*\*. xx. CX

##, top-plate fit 16,25 & 35mm series stage

**\*\*,** length (mm) between base-plate and top-plate

#### FTC16.L\*\*.xx series

- FTC16.L35.xx
- FTC16.L65.xx
- FTC16.L100.xx
- FTC16.L35.xx.CX
- FTC16.L65.xx.CX
- FTC16.L100.xx.CX

xx, connected to cryogenics system cold-plate CX, thermometer added

#### FTC35.L\*\*.xx series

- FTC35.L35.xx
- FTC35.L65.xx
- FTC35.L100.xx
- FTC35.L35.xx.CX
- FTC35.L65.xx.CX
- FTC35.L100.xx.CX

# Accessaries - ToolBox.Basic

Piezoelectric Motion - Low temperature series - Accessaries

#### The basic version of ToolBox is supplied



# 

#### PM.LT.ToolBox.Basic

#### ToolBox.Basic

	items	Specification	Quantity
1	Screws -BeCu	Compatible with 30 mK & 35 Tesla M1.6, M2 suitable	One set
2	Connectors	Compatible with 30 mK & 35 Tesla	
	PA - standard	2pins, 3pins and 4pins	One set
	Peek - UHV compatible	4pins - BeCu pins, Peek main body	
3	Tools	Multifunction screw driver Tweezers	One set
4	USB-Driver	Manual, software etc.	1 pc