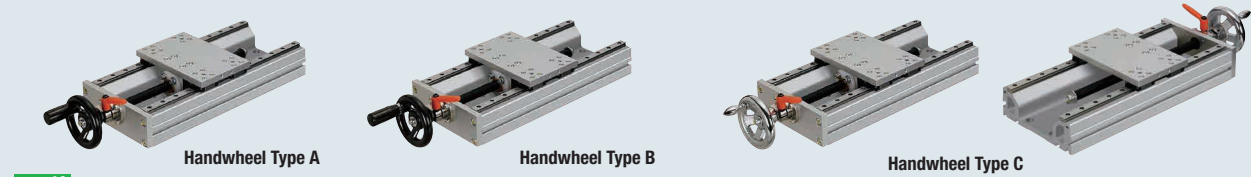


Manually Operated Units

Standard / High Load Type

Manually Operated Units –
Standard / High Load Type



RoHS 10

KUE Standard

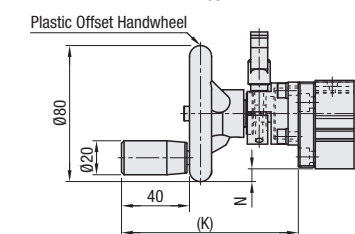
Components

Parts	Frame	Table	Trapezoidal Lead Screws	Trapezoidal Screw Nut	Nut Bracket	Side Plate
Material	Aluminum Alloy	Aluminum Alloy	1045 Carbon Steel or Equivalent	Brass	Aluminum Alloy	Aluminum Alloy
Surface Treatment	Clear Anodize	Clear Anodize	Black Oxide	—	Clear Anodize	Clear Anodize

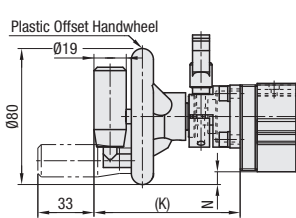
Stroke

Type	Effective Stroke St (mm)					
	L=170	L=220	L=320	L=370	L=420	L=470
KUE	53	103	203	253	303	353

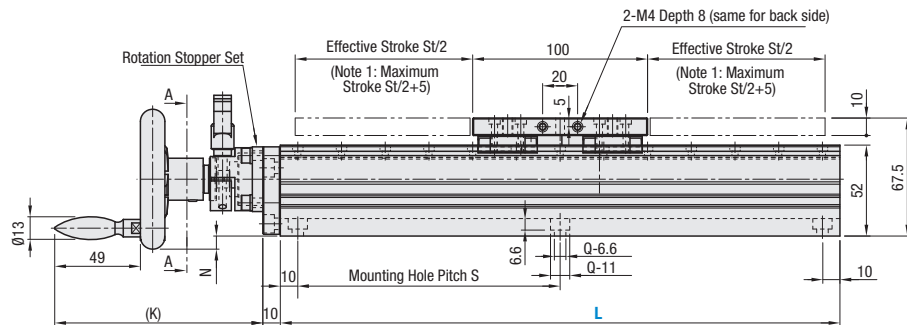
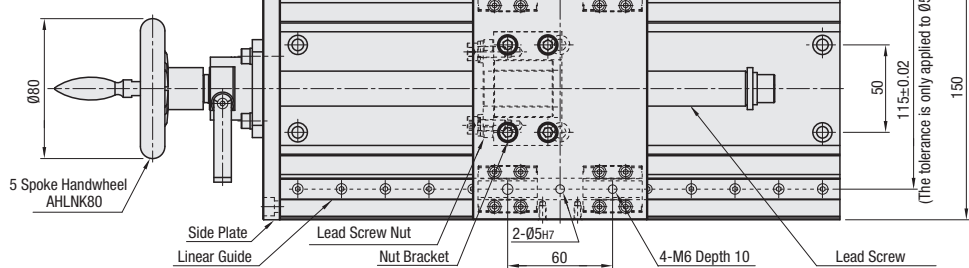
Handwheel Type A



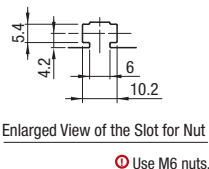
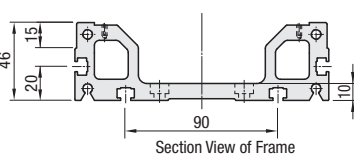
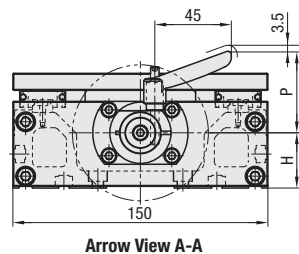
Handwheel Type B Folding Type



Handwheel Type C



Note 1) Stroke limit is where stroke reaches the mechanical limit.



Manually Operated Units

Standard / High Load Type, *continued*

Allowable Load / Allowable Moment

Part Number		Handwheel Type	Base Length L (mm)	Effective Stroke St (mm)	Lead Screw		Allowable Load (N)		Allowable Moment (N-m)			Base Mounting Hole		(K)			Mass (kg)		
Type	No.				Thread Dia.	Lead	Horizontal	Vertical	Ma	Mb	Mc	S	Q (Number of Holes)	Handwheel Type			Handwheel Type		
														A	B	C	A	B	C
KUE	14	A Plastic Handle B Plastic Offset Handwheel – Folding Type C Five Spoked Handwheel	170	53	14	3	245	49	7	7	13	150	4	100	82	115	2.9	2.9	3.2
			220	103								200	4				3.4	3.4	3.7
			320	203								150	6				4.4	4.4	4.7
			370	253								175	6				4.9	4.9	5.2
			420	303								200	6				5.4	5.4	5.7
			470	353								150	8				5.9	5.9	6.2
	20		170	53	20	4	1470	294	43	43	81	150	4	103	85	118	3.5	3.5	3.8
			220	103								200	4				4	4	4.3
			320	203								150	6				5	5	5.3
			370	253								175	6				5.5	5.5	5.8
			420	303								200	6				6	6	6.3
			470	353								150	8				6.5	6.5	6.8

Part Number		Handwheel Type	Frame Length L	Selection Lead Screws			Rotation Stopper Set	Linear Guide	(K)			N	H	P	Frame Mounting Hole		
Type	No.			Type	Screw Shaft Dia.	Lead	Type	Part Number	Handwheel Type						L	S	Q
									A	B	C						
KUE	14	A Plastic Offset Handwheel PHLK	170	MTSBRA	14	3	MTQDM	SE2B13	100	82	115	5.5	34.5	43	100	82	115
		B Plastic Offset Handwheel PHLFK Folding Type	220														
		C 5 Spoke Handwheel AHLNK	320														
	20	A Plastic Offset Handwheel PHLK	370	MTSBR	4	MTQDM	SE2B13	103	85	118	7.5	32.5	45.5	103	85	118	
		B Plastic Offset Handwheel PHLFK Folding Type	420														
		C 5 Spoke Handwheel AHLNK	470														

Mass

Part Number		Handwheel Type	Mass (kg)				
Type	No.		L=220	L=320	L=370	L=420	L=470
KUE	14	A	3.4	4.4	4.9	5.4	5.9
		B	3.1	4.1	4.6	5.1	5.6
		C	3.1	4.1	4.6	5.1	5.6
	20	A	4	5	5.5	6	6.5
		B	3.7	4.7	5.2	5.7	6.2
		C	3.7	4.7	5.2	5.7	6.2

Accuracy

Type	Parallelism (mm)	Backlash (mm)
KUE	0.15	0.3

*Parallelism is when surface B and surface A are running side by side. (See figure on the right)

*Backlash is not a guaranteed value but a reference value.

Required Torque / Required Turning Force

Part Number		Required Torque (N·m)		Required Turning Force (N)	
Type	No.	Horizontal	Vertical	Horizontal	Vertical
KUE	14	0.039	0.201	1.503	7.734
	20	0.059	0.420	2.261	16.164

*Required torque and turning force are when allowable load is applied on two tables.

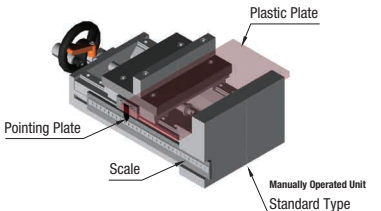
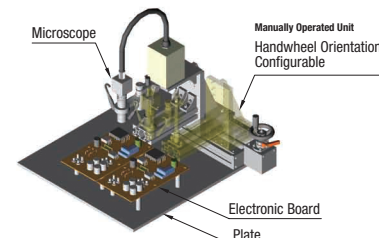
*Turning force is the force that rotates the handwheel. (See the figure on the right)

*Vertical values are those when elevating the table.

Microscope Inspection Stage

Inspects a few types of electric components (at specific portion).

Manually Operated Unit is used for the axis of XY Inspection Stage to slide a microscope.



Crack Inspection and Simplified Measurement Device

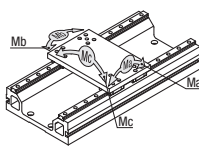
Operates crack inspection and simplified measurement for plastic plates.

Manually Operated Unit is used to prevent claims due to slight cracks and scratches after delivery. Conducts inspection with constant pressure loaded, and measures dimensions with an attached scale.

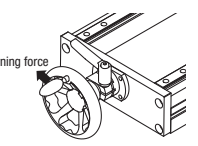


Part Number Example
KUE14 - A - 320

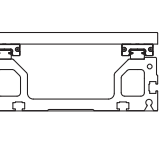
Moment Fig.



Turning Force Fig.



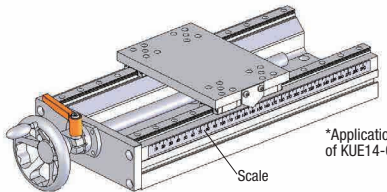
Parallelism Fig.



Application Example

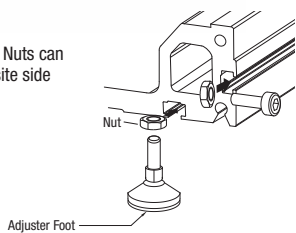
Horizontal

Scales can be installed on the frame side surfaces.



Usage of Frame Slots

Side and bottom surfaces are grooved for M6 nuts. Nuts can be inserted either from the wheel side or the opposite side to tighten screws and install adjuster feet.



Laser Marker Lifting Device

Laser marker is lifted/lowered to adjust the marking position since the position of laser engraving differs depending on products.

Angle Plate Integrated Manually Operated Unit is used to prevent tilt of a heavy laser marker when lifted/lowered.

