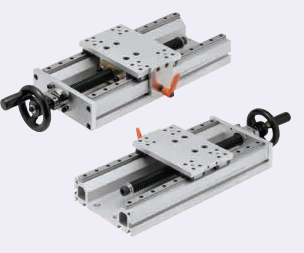


Manual Units

Table Fixed Type

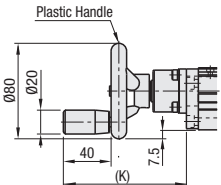
■ **Features:** Direct table clamping avoids position drifts caused by leadscrew backlash.

■ **X-Axis**

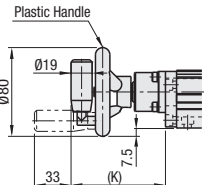


KUEC

Handwheel Type A



Handwheel Type B

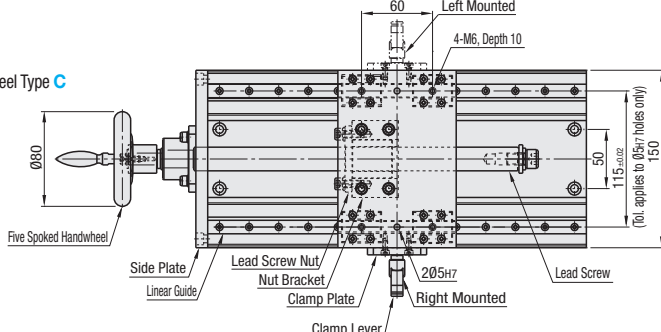


■ **Components**

Parts	Base	Table	Lead Screw	Lead Screw Nut
Material	Aluminum Alloy	Aluminum Alloy	S45C	Brass
Surface Treatment	Clear Anodize	Clear Anodize	Black Oxide	-

Parts	Nut Bracket	Side Plate	Clamp Plate
Material	Aluminum Alloy	Aluminum Alloy	Aluminum Alloy
Surface Treatment	Clear Anodize	Clear Anodize	Clear Anodize

Handwheel Type C



Left Mounted
4-M6, Depth 10
60

Right Mounted
Lead Screw
4-M6, Depth 10
50
115 (size only)
150
(to. applies to Ø54r holes only)

Five Spoked Handwheel
Side Plate
Lead Screw Nut
Nut Bracket
Clamp Plate
2Ø5H7
Clamp Lever

Linear Guide
Bearing Housing
Effective Stroke St/2
100
50
Effective Stroke St/2
(Note 1: Stroke Limit St/2+5)
6.6
Q-Ø6.6
Q-Ø11
10
52
67.5
10

Mounting Hole Pitch S
Ø13
49
7.5
10
(K)

Arrow View A-A
Handle O.D. Ø80
Long Nut HNTLS5
32.5
150
41
3.5

Base Cross Section
4-M6, Depth 18
46
20
15
90

Enlarged View of Nut Slot
5.4
4.2
6
10.2

Use M6 nuts. Note 1) Stroke limit is where stroke reaches the mechanical limit.

Part Number	Type	No.	Handwheel Type	Base Length L(mm)	Effective Stroke St(mm)	Lead Screw Thread Dia.	Lead	Allowable Load (N)		Moment Load Capacity (N·m)			Base Mounting Hole		(K)	Mass (kg)				
								Horizontal	Vertical	Ma	Mb	Mc	S	Q (Number of Holes)		A	B	C		
KUEC	14	A	Plastic Handle	170	53	14	3	245	49	7	7	13	150	4	99	81	113	2.9	2.9	3.2
				220	103													3.4	3.4	3.7
				320	203													4.4	4.4	4.7
				370	253													4.9	4.9	5.2
				420	303													5.4	5.4	5.7
				470	353													5.9	5.9	6.2
	20	B	Plastic Offset Handwheel - Folding Type	170	53	20	4	490	98	14	14	27	150	4	107	89	121	4	4	4.3
				220	103													5	5	5.3
				320	203													5.5	5.5	5.8
				370	253													6	6	6.3
				420	303													6.5	6.5	6.8
				470	353													6.5	6.5	6.8

⚠ The allowable load for this product is the load that can be placed on the stage table such that it can still be moved. "Horizontal" and "vertical" indicate the installation orientation.

Ordering Example: Part Number - Handwheel Type - Clamp Position - L
KUEC14 - A - W - 320

Part Number	Type	No.	Handwheel Type	Unit Price 1 ~ 2 pc(s).					
				L=170	L=220	L=320	L=370	L=420	L=470
KUEC	14	A	A						
			B						
			C						
			A						
			B						
			C						
KUEC	20	A	A						
			B						
			C						
			A						
			B						
			C						

■ **Clamping Force 100N**
* Clamping Force is not a guaranteed value but a reference value.

■ **Clamping Force Testing Method**

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

■ **Accuracy**

Type	Parallelism (mm)	Backlash (mm)
KUEC	0.15	0.5

*Parallelism is the degree of running parallelism for dimension B against dimension A. (See the diagram below.)
*The backlash value shown is for unclamped state. (Reference Value)



■ **Required Torque, Required Turning Force**

Part Number	Type	No.	Required Torque (N·m)		Required Turning Force (N)	
			Horizontal	Vertical	Horizontal	Vertical
KUEC	14	A	0.039	0.206	1.503	7.918
			0.059	0.426	2.261	16.402
KUEC	20	A	0.059	0.426	2.261	16.402
			0.059	0.426	2.261	16.402

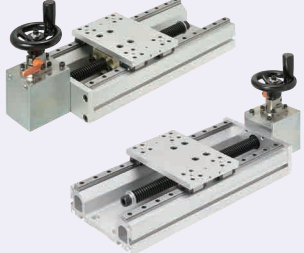
*Torque and turning force required at max. load capacity.
*Turning force is the force that rotates the handwheel.
*Vertical values are those when elevating the table.

Manual Units

Handwheel Orientation Configurable

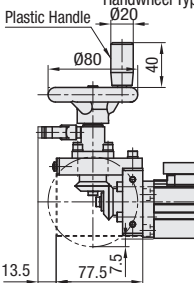
■ **Features:** Handwheel orientation is selectable. Best suited for use in limited spaces.

■ **X-Axis**

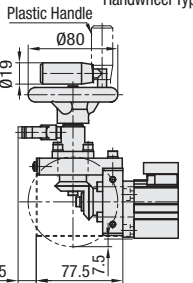


KUEF

Handwheel Type A



Handwheel Type B

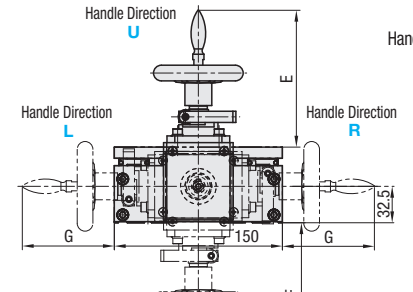


■ **Components**

Parts	Base	Table	Lead Screw	Lead Screw Nut
Material	Aluminum Alloy	Aluminum Alloy	S45C	Brass
Surface Treatment	Clear Anodize	Clear Anodize	Black Oxide	-

Parts	Nut Bracket	Side Plate	Bevel Gear	Cover
Material	Aluminum Alloy	Aluminum Alloy	S45C	SUS304HL
Surface Treatment	Clear Anodize	Clear Anodize	-	-

Handwheel Type C



Handle Direction U
Handle Direction L
Handle Direction R
Handle Direction D

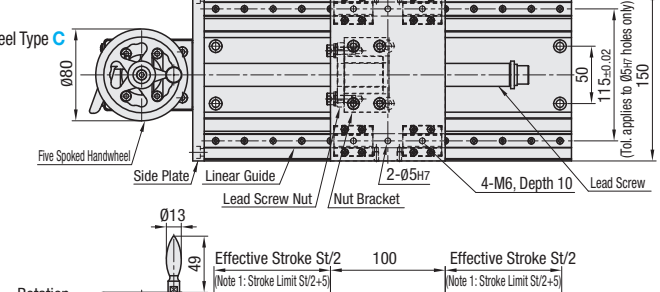
Five Spoked Handwheel
Side Plate
Linear Guide
Lead Screw Nut
Nut Bracket
2-Ø5H7
4-M6, Depth 10
Lead Screw
32.5
150
G
G
L
F

Arrow View A-A
4-M6, Depth 18
46
20
15
90

Enlarged View of Nut Slot
5.4
4.2
6
10.2

Use M6 nuts. Note 1) Stroke limit is where stroke reaches the mechanical limit.

Handwheel Type C



Five Spoked Handwheel
Side Plate
Linear Guide
Lead Screw Nut
Nut Bracket
2-Ø5H7
4-M6, Depth 10
Lead Screw
50
115 (size only)
150
(to. applies to Ø54r holes only)

Rotation Stopper Set
Ø13
Ø19
Effective Stroke St/2
100
Effective Stroke St/2
(Note 1: Stroke Limit St/2+5)
Handle O.D. Ø80
Handle Direction Fixing Plate
2-M4 Depth 8 (Back side also)
20
67.5
10
Q-Ø6.6
Q-Ø11
Mounting Hole Pitch S
L

Arrow View A-A
4-M6, Depth 18
46
20
15
90

Enlarged View of Nut Slot
5.4
4.2
6
10.2

Use M6 nuts. Note 1) Stroke limit is where stroke reaches the mechanical limit.

Part Number	Type	No.	Handwheel Type	Handwheel Orientation Configurable	Base Length L(mm)	Effective Stroke St(mm)	Lead Screw Thread Dia.	Lead	Allowable Load (N)		Allowable Moment (N·m)			Handwheel Type						Base Mounting Hole S	Q (Number of Holes)	Mass (kg)								
									Horizontal	Vertical	Ma	Mb	Mc	A	B	C	E	F	G			E	F	G	E	F	G			
KUEF	20	A	Plastic Handle	U	170	53	20	4	490	98	14	14	27	107	109.5	67	122	124.5	82	122	124.5	82	150	4	4.7	4.7	5			
																									220	103	5.2	5.2	5.5	
																									320	203	6.2	6.2	6.5	
																									370	253	6.7	6.7	7	
																									420	303	7.2	7.2	7.5	
																									470	353	7.7	7.7	7.7	
	KUEF	20	B	Plastic Offset Handwheel - Folding Type	D	170	53	20	4	490	98	14	14	27	107	109.5	67	122	124.5	82	122	124.5	82	150	4	4.7	4.7	5		
																										220	103	5.2	5.2	5.5
																										320	203	6.2	6.2	6.5
																										370	253	6.7	6.7	7
																										420	303	7.2	7.2	7.5
																										470	353	7.7	7.7	7.7

⚠ The allowable load for this product is the load that can be placed on the stage table such that it can still be moved. "Horizontal" and "vertical" indicate the installation orientation.

Ordering Example: Part Number - Handwheel Type - Handwheel Orientation - L
KUEF20 - A - L - 320

Part Number	Type	No.	Handwheel Type	Unit Price 1 ~ 2 pc(s).					
				L=170	L=220	L=320	L=370	L=420	L=470
KUEF	20	A	A						
			B						
			C						

■ **Required Torque, Required Turning Force**

Part Number	Type	No.	Required Torque (N·m)		Required Turning Force (N)	
			Horizontal	Vertical	Horizontal	Vertical
KUEF	20	A	0.059	0.420	2.261	16.164
			0.059	0.420	2.261	16.164

*Torque and turning force required at max. load capacity.
*Turning force is the force that rotates the handwheel.
*Vertical values are those when elevating the table.

