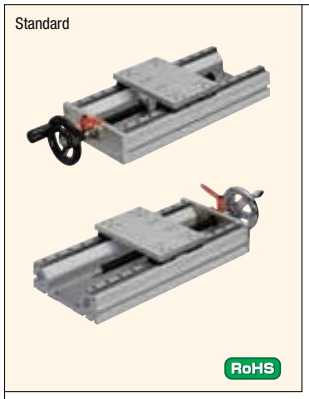
Manual Units

Standard

Features: Units best suited for simple manual positioning.

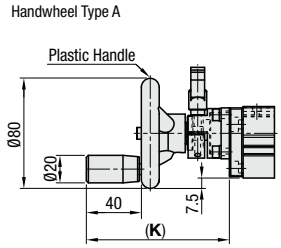
Standard

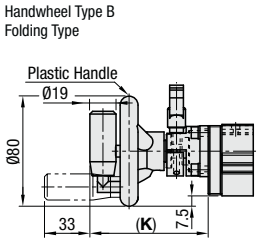


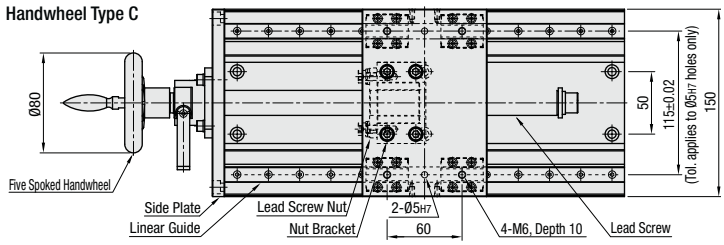
KUE (Standard)

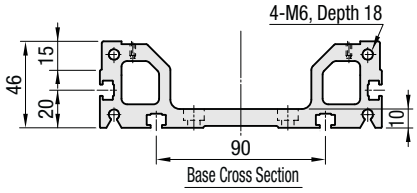
Components

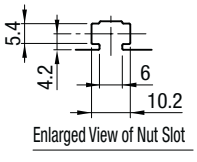
Parts	Base	Table	Lead Screw	Lead Screw Nut	Nut Bracket	Side Plate
Material	Aluminum Alloy	Aluminum Alloy	S45C	Brass	Aluminum Alloy	Aluminum Alloy
Surface Treatment	Clear Anodize	Clear Anodize	Black Oxide	-	Clear Anodize	Clear Anodize



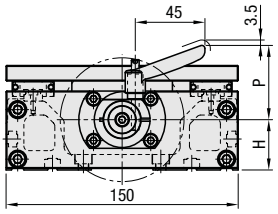




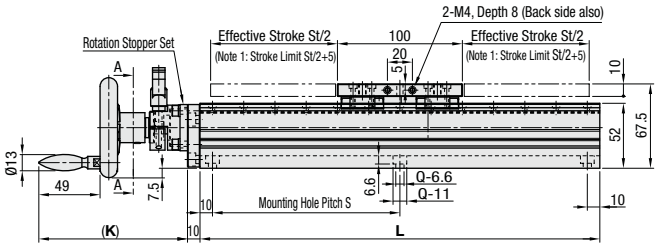




Use M6 nuts.



Arrow View A-A



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

Part Number Type	Part Number No.	Handwheel Type	Base Length L (mm)	Effective Stroke St(mm)	Lead Screw Thread Dia.	Lead Screw Lead	Allowable Load (N) Horizontal	Allowable Load (N) Vertical	Allowable Moment (N • m) Ma	Allowable Moment (N • m) Mb	Allowable Moment (N • m) Mc	N	H	P	Base Mounting Hole S	Base Mounting Hole Q (Number of Holes)	(K) Handwheel Type A	(K) Handwheel Type B	(K) Handwheel Type C	Mass (kg) Handwheel Type A	Mass (kg) Handwheel Type B	Mass (kg) Handwheel Type 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	5.5	34.5	43	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	7.5	32.5	45.5	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

Accuracy

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

Parallelism is the degree of running parallelism for dimension B against dimension A. (See the diagram on the right.)

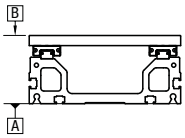
Backlash is not a guaranteed value but reference value.

Required Torque, Required Turning Force

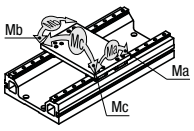
Part Number Type	Part Number No.	Required Torque (N • m) Horizontal	Required Torque (N • m) Vertical	Required Turning Force (N) Horizontal	Required Turning Force (N) Vertical
KUE	14	0.04	0.2	1.5	7.7
	20	0.06	0.4	2.3	16.2

Torque and turning force required at max. load capacity.
Turning force is the force that rotates the handwheel. (See the diagram on the right.)
Vertical values are those when elevating the table.

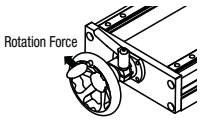
Parallelism Fig.



Moment Diagram



Turning Force Fig.



Part Number Type	Part Number No.	Handwheel Type
KUE	14	A
		B
		C
	20	A
		B
		C

Ordering Example

Part Number	Handwheel Type	L
KUE14	A	320