

# Manual Units - Overview

# Manual Units Standard

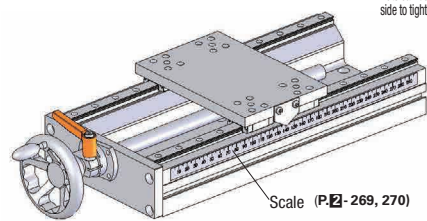
## Product List

Type		Manual	Motorized (with Motor)
Standard		Features: Units best suited for simplified positioning. Shipping cost is small. P.2018	Type: <b>KUK / KUG</b> Listed on our website
Rapid Feed		Features: Built-in speed multiplier enables feed rate of 2.5 times of the standard units. P.2019	-
With Position Indicator	Standard	Features: Position Indicator allows easy position adjustments. P.2020	-
	Elevator Type	Features: Units suited for up-and-down movements. P.2023	-
Table Fixed Type		Features: Direct table clamping avoids position drifts. P.2021	-
Handwheel Orientation Configurable	Standard	Features: Handwheel orientation is selectable. Best suited for use in limited spaces. P.2022	-
	Elevator Type	Features: Units suited for up-and-down movements. P.2025	-
Symmetrical Action Dual Carriages		Features: Right and left tables move simultaneously. Usable as an inspection component. P.2026	-

⚠ Description of Rotary Tables KUS si moved to P.1983.

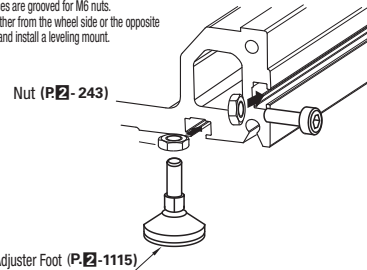
## Example App. Example of Manual Units

**Horizontal**  
Scales can be installed on the frame side surfaces.

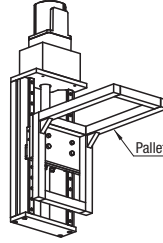


\* Application Example of KUE14-C-320

**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 a leveling mount.



**Transfer**  
Used to move workpieces vertically.



## Features: Units best suited for simple manual positioning.

**Standard**

**Handwheel Type A**  
Plastic Handle

**Handwheel Type B**  
Folding Type

**Handwheel Type C**  
Five Spoked Handwheel

Enlarged View of Nut Slot

Use M6 nuts.

**Components**

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

4-M6, Depth 18

4-M6, Depth 10

2-M4, Depth 8 (Back side also)

Effective Stroke S/2 (Note 1: Stroke Limit S/2+5)

Effective Stroke S/2 (Note 1: Stroke Limit S/2+5)

Rotation Stopper Set

Mounting Hole Pitch S

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			Allowable Load (N)			Allowable Moment (N·m)			Base Mounting Hole		(K)			Mass (kg)		
						Thread Dia.	Lead	Horizontal	Vertical	Ma	Mb	Mc	S	Q (Number of Holes)	A	B	C	A	B	C		
KUE	14	A	Plastic Handle	170	53	14	3	735	147	7	7	13	150	4	100	82	115	2.9	2.9	3.2		
				200	4								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	1470	294	43	43	81	150	4	103	85	118	3.5	3.5	3.8		
				200	4								4	4				4.3				
				320	203								5	5				5.3				
				370	253								5.5	5.5				5.8				
				420	303								6	6				6.3				
				470	353								6.5	6.5				6.8				

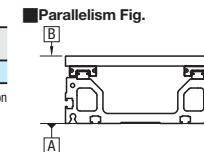
⚠ The allowable load for this product is the load that can be placed on the stage table such that it can still be moved. "Horizontal" and "vertical" indicate the installation orientation.

Ordering Example: Part Number - Handwheel Type - L  
KUE14 - A - 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
KUE	14	A	A						
			B						
			C						
	20	B	A						
			B						
			C						

**Accuracy**

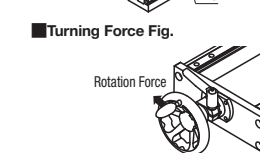
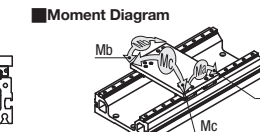
Type	Parallelism (mm)	Backlash (mm)
KUE	0.15	0.3



⚠ 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	No.	Required Torque (N·m)		Required Turning Force (N)	
		Horizontal	Vertical	Horizontal	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.