

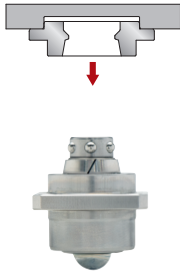
# Smart Series

Line-up of 6 models Many more to come



model **KSS**

Workpiece Clamping



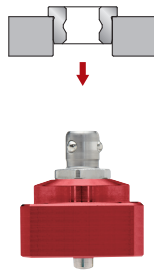
model **KSL**

Pallet Change



model **KSH**

Workpiece Holding

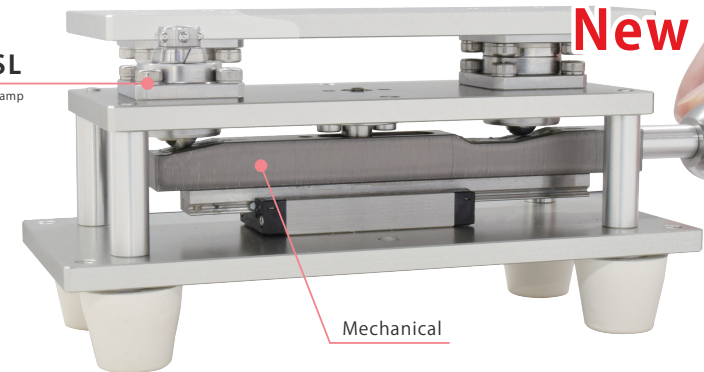


model **KSA**

Falling Prevention



model **KSL**  
Location Clamp

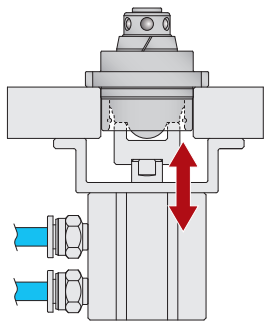


Mechanical

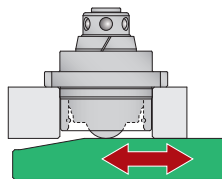
**KOSMEK's  
New Idea**

## Powered by Any Power Source

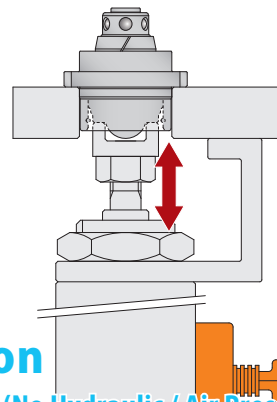
**Air Cylinder**



**Mechanical**



**Electrical Cylinder**



## Smart Fit on Any Application

Solution for various issues such as Energy Saving (No Hydraulic-/Air Pressure, No Driving Source), All Electric System, Carbon Neutrality, SDGs, etc.

### Location Clamp

model **KSL** Spring Lock / External Force Release

Enables easier pallet change and setup.  
Locating Repeatability : 0.01mm



### Hole Clamp

model **KSH** Spring Lock / External Force Release

Gripper expands and clamps in the workpiece hole.  
Workpiece Hole Diameter  $\pm 0.3$  :  
 $\phi 6, \phi 6.5, \phi 7, \phi 7.5, \phi 8, \phi 8.5, \phi 9, \phi 9.5$  and  $\phi 10$



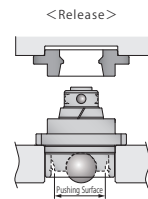
### Ball Lock Cylinder

model **KSA** Spring Lock / External Force Release

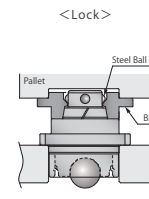
Securely transfers pallets and plates.  
Prevents pallet/plate drops with the steel balls (Ball Lock).  
Pulling Capacity (Holding Force) : 50N



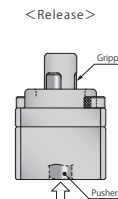
### Action Description



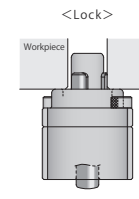
When the pushing surface is pushed in, the steel ball retracts.



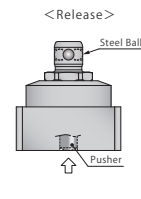
When the pushing surface is released, the steel ball expands with the built-in spring. It pulls in the block, and completes the clamping / locating.



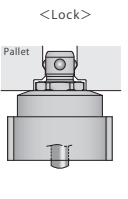
When the pusher is pushed in, the gripper retracts.



When the pusher is released, the gripper expands with the built-in spring and grips a workpiece.



When the pusher is pushed in, the gripper retracts.



When the pusher is released, the gripper expands with the built-in spring and grips a workpiece.

## Swing Clamp

# Smart Series Swing Clamp

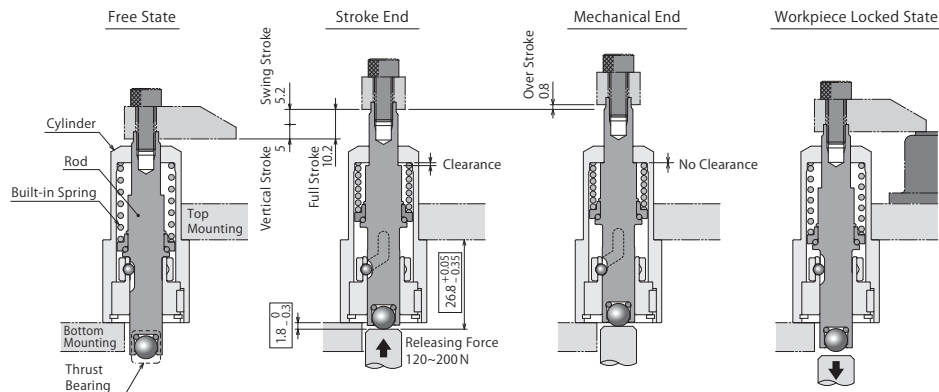
Model KSS

## High Rigidity, Long Operational Life and High Accuracy with Powerful Swing Mechanism

Swing Angle Position Repeatability  $\pm 1^\circ$



### Action Description



• When releasing force is applied to the thrust bearing on the bottom, the built-in spring is compressed and the clamp is released.  
• The stroke end is shown in in the drawing.

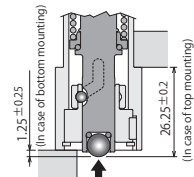
• When released 0.8mm further from the stroke end (over stroke), the rod cannot be stroked any further. (Mechanical End)

• When releasing force is released, the rod swings and descends with the built-in spring to clamp a workpiece.

### Recommended Releasing Point

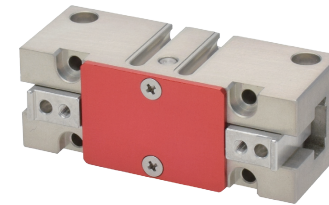
Applying a thrust force exceeding 200N at the mechanical end position may damage the inside of the clamp.

Especially in case of a driving device using as shown on P.4 "Application Examples", set the clamp to a position where it stops within the over stroke range before the mechanical end when released to avoid overloading.



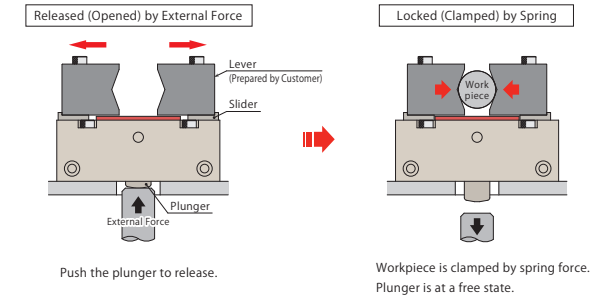
## Two-Jaw Chuck

Model KSC



## Holds and Centers Workpiece

※ Exclusively designed for closing side only. Not capable of clamping the opening side by external force.



### • High Accuracy

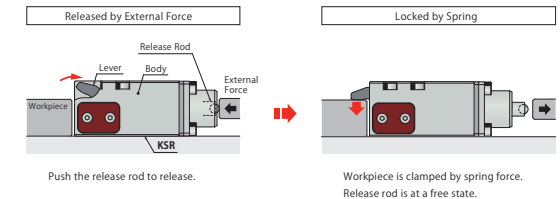
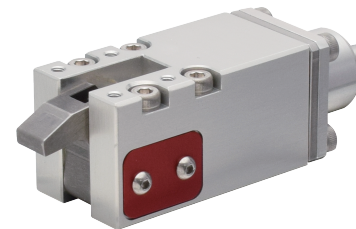
Enables high repeatability and is suitable for high-accuracy application.  
Repeatability (Slider Direction):  $\pm 0.01$  mm

### • Easy to Machine the Mounting Surface of Lever

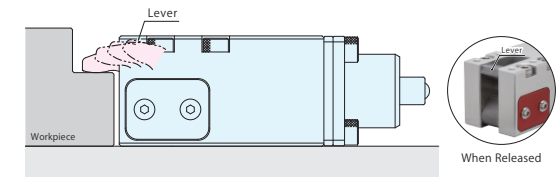
Only slot for locating pin and bolt hole need to be machined for mounting the lever.  
Complicated serration machining is not required.

## Reach Clamp

Model KSR

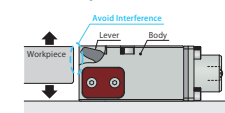


### Lever Completely Retracted when Released



### • Avoid interference with a workpiece

The lever is retracted inside the body when released to avoid interference with a workpiece when loading and unloading.



### • Enables to clamp difficult clamping points

The compact lever-operating range enables to clamp difficult clamping points.

