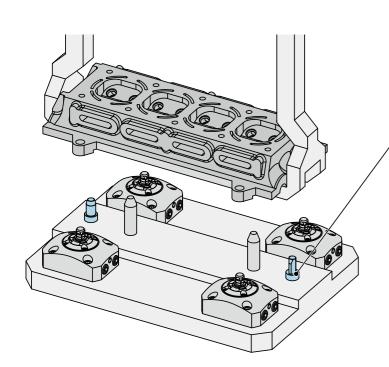
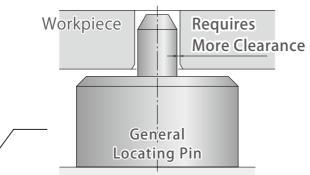
Automation and **High Accuracy**

Eliminate backlash of robot/loader for high-accuracy machining





Locating Accuracy : Low

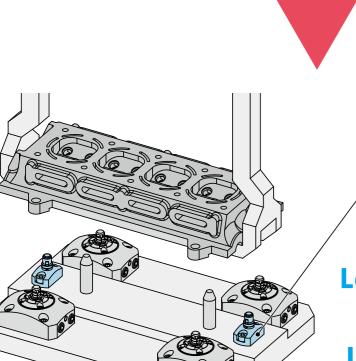
Clearance to load/unload a workpiece smoothly leads to low locating accuracy.

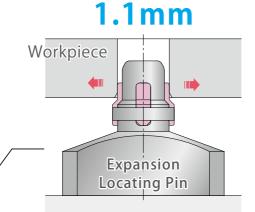
Loading Difficulty : High

Expansion Stroke

A robotic hand, or a loader can reduce its speed due to a workpiece getting stuck during loading...

with Large Expansion Locating Pin





Locating Accuracy : High

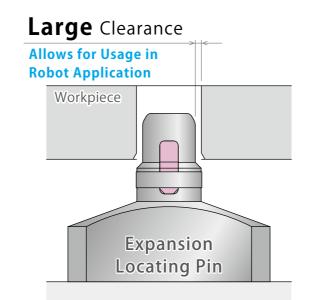
Locating Repeatability : $10 \, \mu \, m$

Loading Difficulty : Low

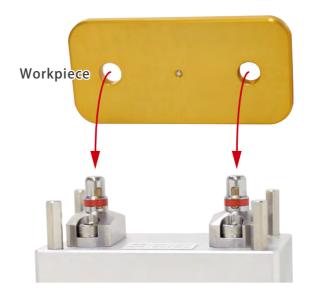
Large expansion stroke enables both smooth loading/unloading and high-accuracy locating.



Expansion Locating Pin Improves Workpiece Loadability and Product Accuracy



When Loading/Unloading (Retracted)



Equivalent to Round Pin Equivalent to Diamond Pin



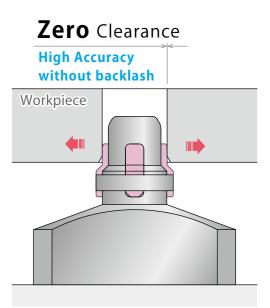
Pneumatic/Hydraulic Large Expansion Locating Pin Multi-Purpose Model

model **VWH/VFH**

High-accuracy locating pin with 1mm larger expansion stroke than current models enables automatic loading/ unloading with a robot.

Applicable Workpiece Hole Diameter : ϕ 9 ~ ϕ 15,

Locating Repeatability : 10 $\mu\,{\rm m}$



When Locating (Expanded)

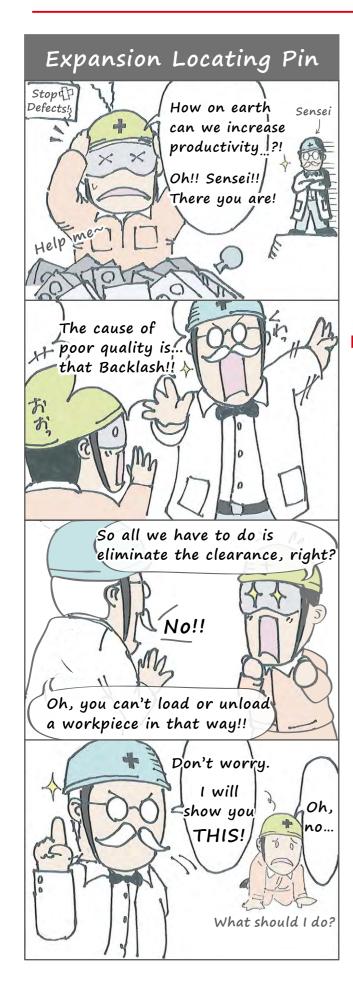


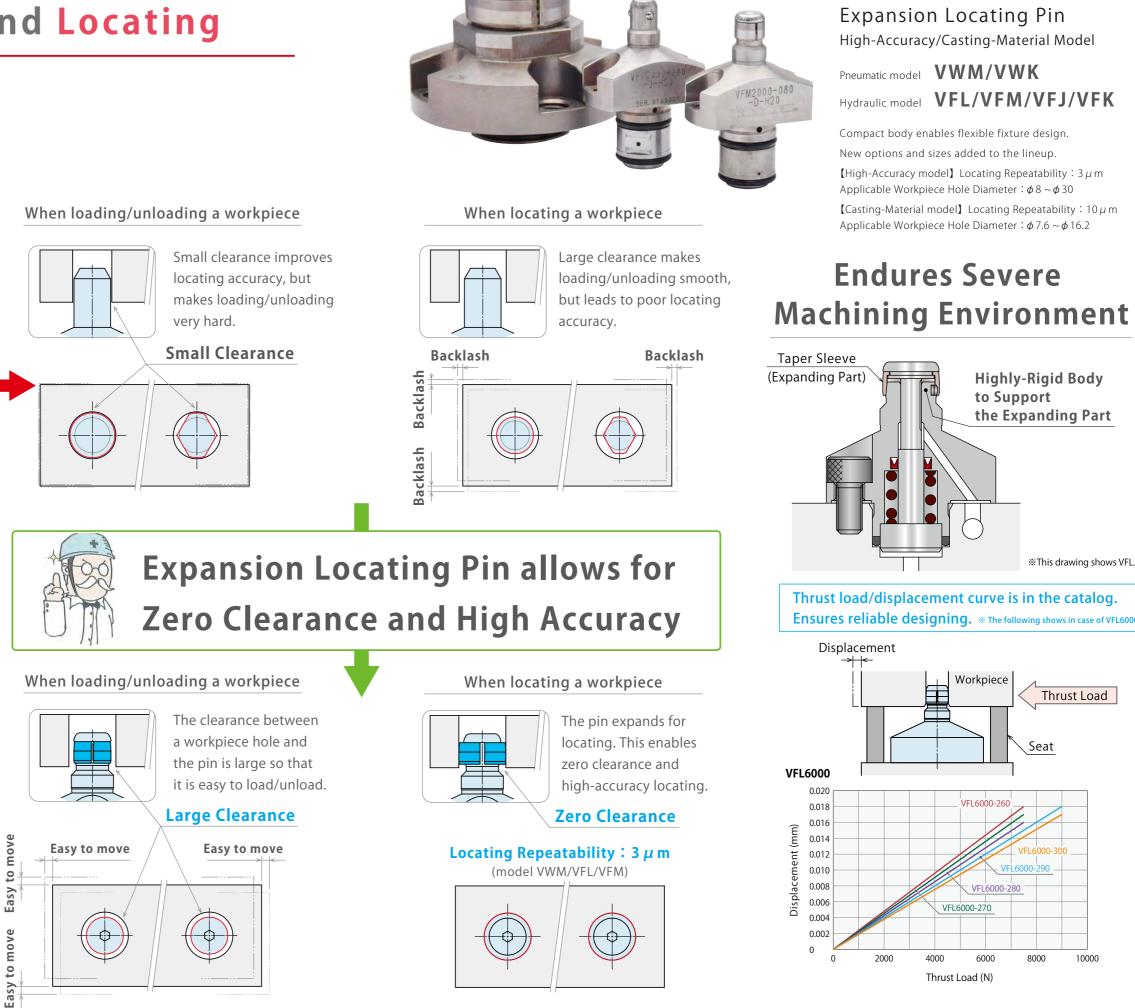
Large Clearance when loading a workpiece



When locating

Defect Rate and Locating







Pneumatic/Hydraulic



Ensures reliable designing. * The following shows in case of VFL6000.