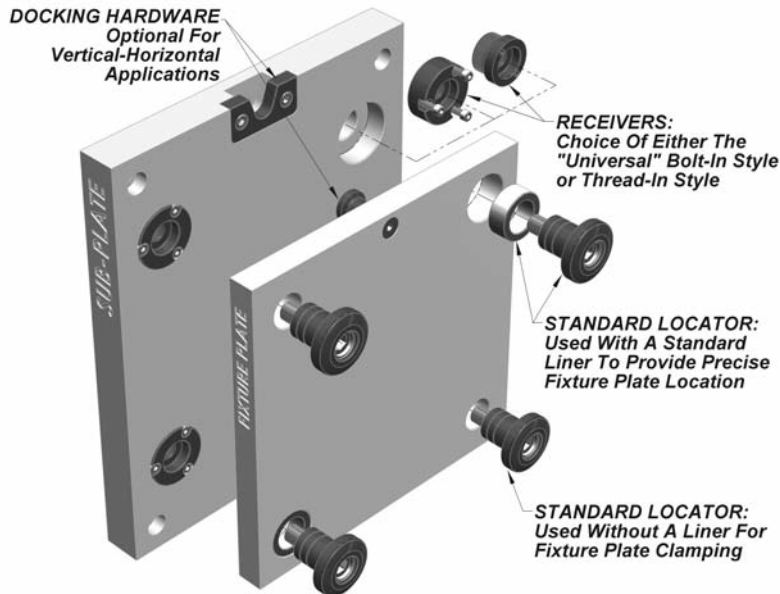


## PRECISION LOCATING & MOUNTING SYSTEM

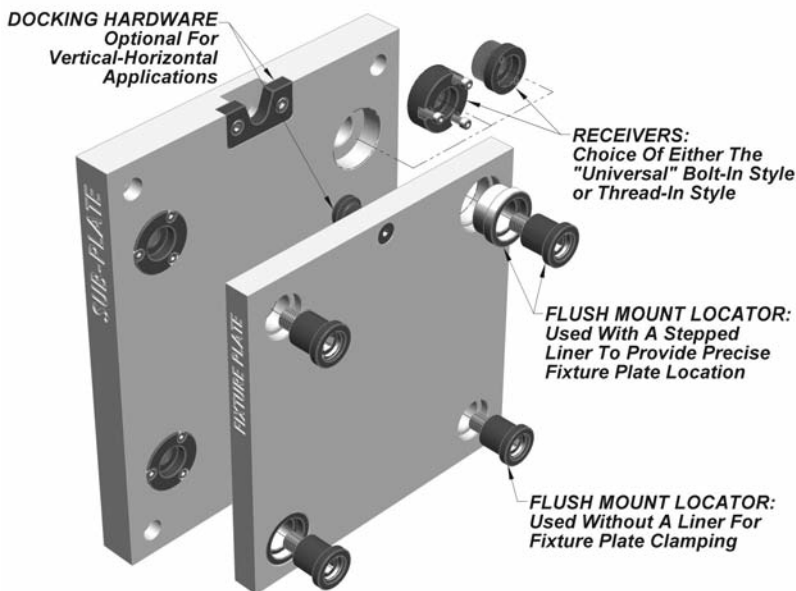
### Standard Locators



The SpeedLoc™ Precision Locating & Mounting System consists of locators/fasteners, receivers and bushings for use in a wide range of tooling, fixturing, workholding, production, welding and assembly applications. They offer the ability to make fast, accurate set-up changes which enables significant improvements in machining productivity, throughput rates, quality, and reduced operating costs.

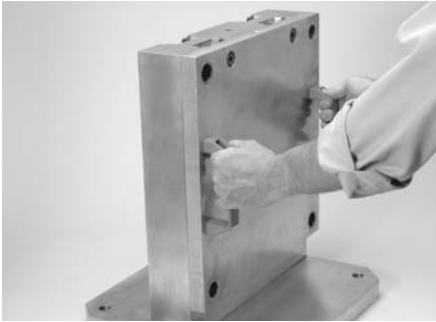
SpeedLoc has solved the typical problems associated with precision attachment and removal of fixture plates, tooling, and accessories. The SpeedLoc System eliminates the need to pry, pound and use jack screws to separate the fixture plate from the sub-plate or machine table. The SpeedLoc System uses a threaded fastening device to mechanically extract the precision "locator" from its "receiver", allowing easy separation of fixture plates, tooling, and accessories. Unlike competitive ball locking products, SpeedLoc does not require expensive "repair kits" since there are no rubber o-rings to break or finicky ball bearings to fall out or fracture.

### Flush Mount Locators



### The SpeedLoc Precision Locating & Mounting System is often used with:

- CNC Machines
- Fabricating
- Assembly Machines
- Welding Fixtures
- Palletized Fixtures
- Injection Molding
- EDM
- Stamping
- Packaging Machines
- Robotics
- Tooling Columns
- Fixture Plates
- Modular Fixturing

**PRECISION LOCATING & MOUNTING SYSTEM**


Place fixture plate over sub-plate or machine table containing SpeedLoc receivers.


**SpeedLoc Precision Mounting and Locating System features include...**


Insert two SpeedLoc precision locators through holes lined with hardened bushings and into the receivers.



Insert remaining two locators into unlined holes and tighten to draw each locator to the desired torque.



Total time required to unload existing fixture plate and load a new fixture plate is typically under 2 minutes.

- **Self-Extracting** – the unique design of SpeedLoc enables the device to easily and quickly “self-extract” from tooling, fixturing, etc. There is no binding or other hang-ups that delay removal time or compromise the accuracy of the locking system.
- **Precise Locating** – Features a repeatability of +/- .0004”
- **Easy Installation** – the SpeedLoc System is easily installed into a wide range of applications using standard tooling and machining practices.
- **Compact** – requires minimal space in tooling and fixturing applications.
- **American Made** – Manufactured from quality alloy materials.
- **High Clamping Strength** – over 45,000 lbs.
- **Recessed/Flush mount capability.**
- **Ability to retrofit with existing competitive ball lock type systems.**

## PRECISION LOCATING & MOUNTING SYSTEM



### Commonly asked questions...

#### Q. What is the SpeedLoc Precision Locating & Mounting System?

A. It is a means of locating and locking two flat surfaces together. These surfaces are most commonly a fixture plate and sub-plate, however, they are also used in many other applications because of their holding strength and accuracy.

#### Q. How does it locate the fixture plate?

A. The SpeedLoc System locates with receivers in the base plate, liner bushings in the sub-plate and locator/fasteners locking the two surfaces together.

#### Q. How many locators are needed to locate and fasten the fixture plate?

A. Two locators with liner bushings are required to accurately position and two locators without liner bushings to fasten only.

#### Q. How does it fasten?

A. The SpeedLoc locators use standard threads to hold the two surfaces together. By tightening the locators into the receivers very high holding forces can be achieved.

#### Q. Can the SpeedLoc be mounted so the work piece mounting surface is free from any interference?

A. Yes, flush mount locators allow the head to lie flush with the fixture plate surface.

#### Q. Can the SpeedLoc System be used in high temperature applications?

A. Yes, because all parts are made from heat treated alloy steel, temperatures up to +500°F are not a problem. The user should account for thermal expansion of the fixture plates and bases that could affect tolerances.

#### Q. Can fixture plates be mounted in both the horizontal and vertical positions with the SpeedLoc System?

A. Yes, in vertical mounting applications, SpeedLoc offers docking hardware to “hang” the fixture plate from the tooling column before fastening the surfaces together.

#### Q. Can a current ball locking type system be retrofit to work with the SpeedLoc System?

A. Yes, the Universal Bolt-In Receivers will fit directly into the pocket that holds ball locking type receivers. Also, the SpeedLoc locators will fit the existing holes and liners of a fixture plate set up for ball locking systems.



**Standard  
Locators**



**Flush Mount  
Locators**



**Thread-In  
Receivers**



**Universal Bolt-In  
Receivers**