

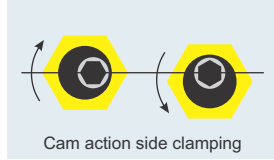
FIXTURE CLAMPS - ECCENTRIC TYPE

The Cam Action Fixture Clamp is made up of two simple components : a hardened steel socket cap screw with an offset head and a hexagonal washer. This clamp is used for low profile side clamping.

- ❑ Low profile makes computer programming easier.
- ❑ Cam action provides fast, strong clamping.
- ❑ Small size allows more parts per load.
- ❑ Simple design keeps cost low.



Available in screw sizes M- 4 to M-16



KNIFE EDGE CLAMPS

Knife Edge Clamps can be used instead of the above Fixture clamps for clamping rough cut stock, castings and any material that requires a hardened clamping element.

Available in M-10, M-12 and M-16 screw sizes.

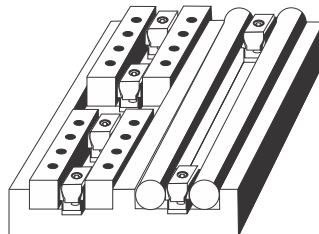


UNIFORCE CLAMPS - WEDGE TYPE

The compact, economical Uniforce Clamp enables you to fixture more parts on the machine table. The specially designed steel wedge spreads the clamping force uniformly on both sides of the channel Jaw. Ideal for clamping flat or round work pieces in multiple set ups.



Available in clamping screw sizes M-2 to M-16.



ID XPANSION CLAMP

The ID Xpansion™ clamp is the ideal way to hold parts on an inside diameter for multiple machining on a vertical machining center or a horizontal machining center. These machinable clamps are produced in 8 sizes and can hold internal diameters from 8mm to over 75mm. The clamps use a heat treated tapered screw for expansion.

The larger diameter of the clamp is held to a close tolerance for precision locating in a machined pocket on work cubes and fixture plates.

The customer machines the soft steel clamp to match the bore of the part ensuring proper fit. Often times the clamps can be remachined for different size jobs.



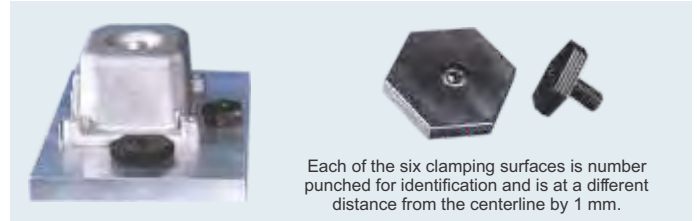
Clamping by ID Expansion Clamp on a multiple clamping fixture

Available in different sizes to hold internal diameters from 8 mm to 103 mm.

SERIES-9 CLAMPS

This adjustable low profile, cam action clamp provides clamping of different size work pieces merely by rotating the clamp to one of its other edges. The clamps are 10mm high and use M12 cam screw. Each of the six clamping surfaces is a different distance from the centerline by 1 mm. Therefore, one Series-9 Clamp can hold parts that vary up to 9.4mm simply by rotating the clamp to a different clamping surface.

- ❑ Serrated edges.
- ❑ Heat treated and plated.



Each of the six clamping surfaces is number punched for identification and is at a different distance from the centerline by 1 mm.

MACHINABLE FIXTURE CLAMPS

Also available 'Machinable Fixture Clamps' where the clamping portion has to be machined by the user as per the profile of the work piece to hold round or unusual shape parts.



MACHINABLE UNIFORCE CLAMPS

Also available 'Machinable Uniforce Clamps' with extra material on the clamping jaws so it can be machined by the user as per the profile of the work piece enabling to fixture unusual applications easily.

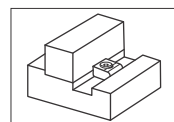


PITBULL CLAMPS

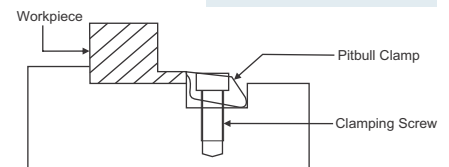
The Pitbull Clamp is a revolutionary new fixture clamp with positive down force and a low gripping profile. High vertical and horizontal clamping forces are generated, considering the size of the Pitbull Clamps. It uses a standard cap screw and an oil resistant O-ring. The Pitbull Clamp is available in 5 sizes and several styles, a tool steel knife edge for aggressive stock removal, a tool steel blunt edge for general purpose and a brass version to help prevent marring the workpiece.



Available in different models having clamping screw sizes from M-4 to M-12.



Fixture example of clamping by Pitbull Clamp



COMPACT TOE CLAMPS

This cam action clamp provides positive down force while using very little space on a fixture. Workpieces can be clamped in series by using the back surface of a clamp to locate the next workpiece. The hardened steel clamping element has both a smooth surface for machined workpieces and a serrated clamping surface for rougher work. The height of the clamp can be adjusted by milling the slot deeper in the fixture plate.



T-SLOT CLAMP KITS (SIDE CLAMPING)

The original MITEE-BITE T-Slot Clamp combines the unique cam action brass clamping element with a T-nut.

- Locks in machine T-slot for low profile clamping
- Makes fast set-ups possible right on the machine table
- Brass hex follows contour of unusual shaped parts
- Packed in complete kits

PART NO.	T-SLOT SIZE	CAM SCREW
50644	10mm	M6
50646	12mm	M8
50648	14mm	M10
50650	16mm	M12
50652	18mm	M12

The Mitee-Bite Kit Contains: 4 Mitee-Bite T-Nuts
6 Mitee-Bite Fixture Clamps
2 Hex Keys



TALONGRIP™ AND VERSAGRIP™ VISE JAWS



TALONGRIP VISE JAWS

MITEE-BITE Products introduces a new and innovative product that will increase the functionality of your standard 4 and 6 inch (100mm and 150mm) vises. **TalonGrip™** is a simple bolt on system that will allow you to perform aggressive machining operations while clamping on as little as 1.5mm. Ideal for small lot sizes, difficult applications or proto-type work when building a fixture would not be beneficial.

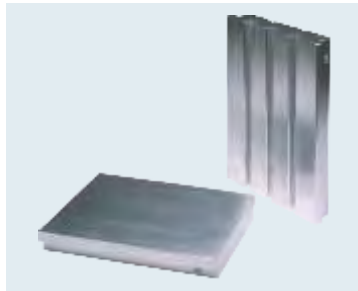
VERSAGRIP VISE JAWS

VersaGrip™, as the name implies, offers the versatility of clamping standard vise work as well as providing a solution for difficult applications that would normally require fixturing or machining soft-jaws. By simply replacing your current jaws with the VersaGrip™ system you can securely hold odd shaped parts while machining at speeds and feeds you never thought possible.

WISE PALLETS

Reduce set up times and increase efficiency on small production jobs. The pallets can be reused for repeat jobs.

- Now you can run fixture jobs without removing your vises.
- These Vise Pallets are designed to fit in all 150mm vises and measure approximately 152 x 203mm and 152 x 254mm. They are available blank and with 10mm T-slots.
- The Blank Pallets are ideal for multiple small parts using one of several MITEE-BITE low profile edge clamps.
- The T-Slot Pallets can be used with our T-Slot Clamps or the versatile 10mm Riser Kit (#51088) for non-dedicated applications.
- The Vise Pallets are qualified in 2 places so they can rest on parallels or on the top of the jaws.



VACMAGIC - PALLET CHANGER & VACUUM CHUCK

USES STANDARD SHOP AIR, NO VACUUM PUMP REQUIRED



Vacuum pallet with rubber cord positioned on base unit for thin workpiece ready to be used as a vacuum chuck.

Low profile base unit quickly mounts to machine table. Operates with 5 Kg/cm² standard shop air.



VACUUM CHUCK APPLICATION



Example of standard pallet machined into a fixture plate positioned on base unit for increased production.

Vise mounted on standard pallet positioned on base unit for quick change from production to prototype.



PALLET CHANGER APPLICATION