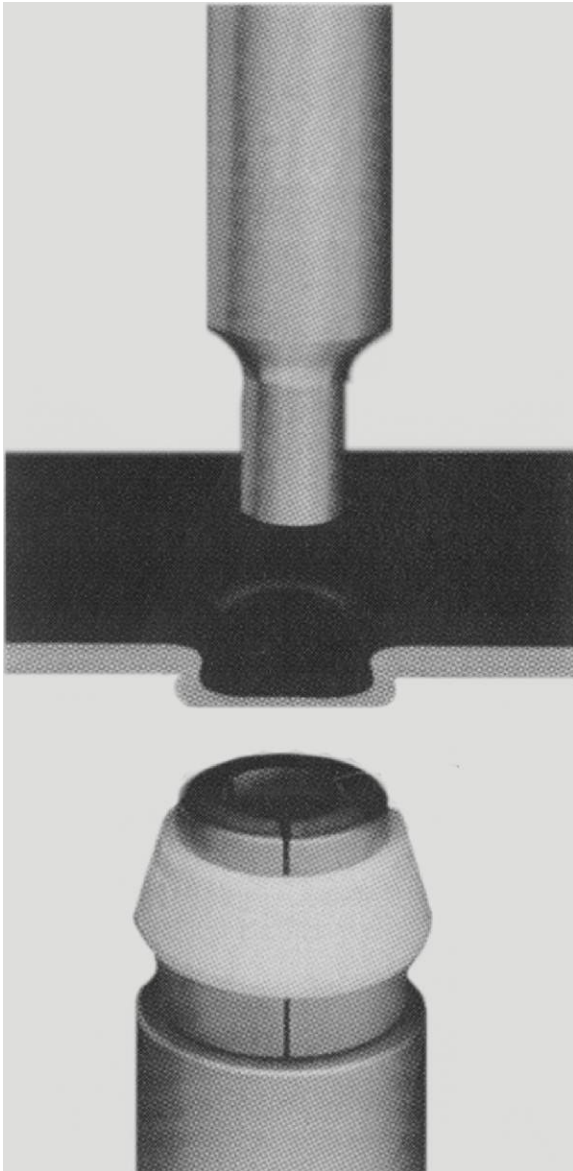




Tog-L-Loc[®]

SHEET METAL JOINING SYSTEM

Patented



Hand operated portable Tog-L-Loc unit

PORTABLE UNIT CONSISTS OF :

- POWER BOOSTER
- Tog-L-Loc TOOLING
- HOSE
- HAND HELD GUN

BENEFITS OF Tog-L-Loc SYSTEM

- DISSIMILAR METALS CAN BE JOINED
- ELIMINATES SPOT WELDING OPERATIONS
- JOINS IN A SINGLE PRESS STROKE
- NO CORROSION

APPLICATIONS :

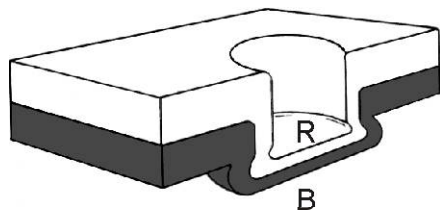
- Microwave oven
- Refrigerator & Air conditioners
- Washing Machine
- Cabinets
- Control Panel
- Fuses
- Switch Contact
- Lamp Reflector
- Junction Box
- Ducting
- Suspended Ceilings
- Automobile Industries

THE **Tog-L-Loc** JOINING SYSTEM

The **Tog-L-Loc** system joins sheet metals, extrusions and formed metal components. Steel, Aluminium, Brass and other metals can be joined.

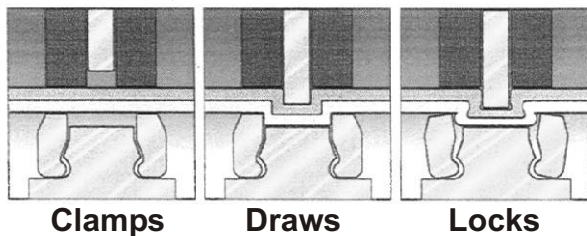
Tog-L-Loc joining systems produce clean, strong and consistent joints in most coated or uncoated metals. The joints are characterized by a "**button**" (B) formed on the die side layer of metal and a **recess** (R) formed in the punch side layer.

Tog-L-Loc is a circular, leakproof joint formed by drawing the metals into a circular "**cup**" and expanding the diameter to form a 360° lock below the bottom sheet.



Typical cross section of **Tog-L-Loc** joint

Tog-L-Loc is characterised by its omnidirectional strength, excellent fatigue properties and exceptional tool life.

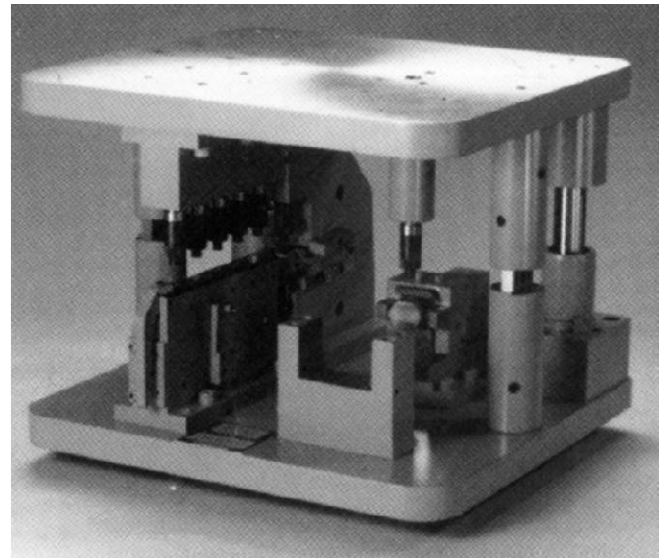


The stripper clamps the metals to the die as the punch advances. The punch draws the metals into the die and squeezes them against the anvil. The metals flow outwardly as the die blades open; this causes the diameter of the lock to expand.

INSTALLATION OF **Tog-L-Loc** TOOLING ON PRESS

Tog-L-Loc sheet metal joining system can be installed on your existing Mechanical / pneumatic / Hydraulic press available in your workshop.

The clinching tool (die & punch) should be mounted on "die set" with precision guide pillars. The "die set" should have mechanical stoppers. The stopper will ensure that the "clinching tool" does not get damaged in event of excessive "stroke setting".



Die set tooling for **Tog-L-Loc** joining in your existing presses.

- Leakproof : No holes through the metal
- Strong, durable : High strength & vibration resistance
- Thickness combination : Thickness ranging from 2 layers x 0.2 mm upto a combined total thickness of 6 mm can be joined
- Cost efficient : Long Tool Life
- Versatile : Joins plain, pre-coated, pre-painted, oily, Scaly or dissimilar metals
- Clean, protective : Does not burn or pierce protective coatings
- No rivets, screws, fumes or sparks : Reduces cost per joint, lower cost, more consistent and better fatigue resistant than SPOT WELDING



Orbital Systems (Bombay) Pvt. Ltd.

Office: F-129, Ansa Industrial Estate, Saki Vihar Road, Mumbai - 400 072. (India).
Tel: 91-22-2847 3312 / 2847 1274 / 2847 3533 Fax : 91-22-2847 6675
E-mail : sales@orbitalsystems.net Website : www.orbitalsystems.net

Works : F-19, M.I.D.C., Street No. 18, Satpur, Nasik - 422 007 (India).
Tel. : 2350081, 2363083 Fax: 91-253-2352716 E-mail : orbitalsystems@eth.net

ISO 9001:2000

