



# TITE SEAL

DRUM CLOSURES THAT INSPIRE CONFIDENCE.....



**TECHNOCRAFT**  
INDUSTRIES (INDIA) LTD.

- Established in 1972
- The largest independent Steel Drum Closures and Clamps (lever latches) manufacturer in the world.
  - Producing 80 million sets of Drum Closures for steel barrels and drums per year.
- 30 million clamps (lever latches) annually for Steel Drums, HDPE Drums, Fiber Drums, Pails & Tin Cans.
- Producing a wide variety of Plastic Spouts and Metal Closures for Plastic & Metal Pails, Cans, Small Drums & Tin containers.
  - Having production facility in India & China.
- Annual turnover over USD 300 million. Business in about 80 countries worldwide.

### Plated Closures

Suitable for the industries that use MS Barrels for filling

- Lubricants
- Speciality Chemicals
- Additives
- Fine Chemicals
- Paints/Coatings/Inks.
- Available in Trivalent Passivation Chromium (CR) 3 & Hexavalent Passivation Chromium (CR) 6 Finish.



### Lacquered Closures

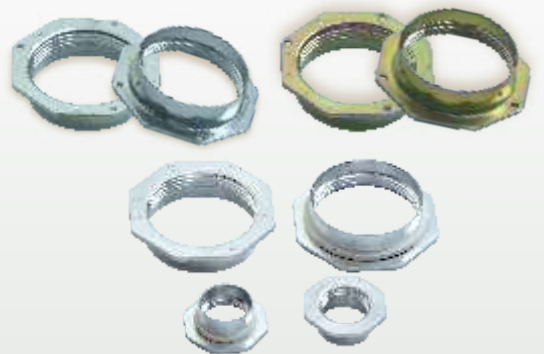
Suitable for MS Epoxy Coated Barrels for filling

- Aggressive Products
- Transformer Oils
- Extreme hazardous chemicals
- Food / Dairy Products
- Flavors & Fragrances
- Also available BPA (Bisphenol A) Free Lacquer



### Special Flanges

- 3 hole Flanges
- Aluminum Flanges



### Stainless Steel Drum Closures

- Suitable for SS Drum/Barrels for filling Pharma and food / dairy products



### Vent Plugs & Vent Capsels

used for filling.

- Suitable for Venting Pressure and Vacuum build-up inside the Drum.
- Protect drum from differential pressure damage
- Plugs Vent at differential pressure of min. 0.2 bar



PLASTIC & NYLON PLUG VENT-IN/OUT

BUTTRESS THREAD VENT-IN/OUT



Vent Plug with Metal Ball

DUALVENT

HEXAGONAL VENT

VENT CAPSEAL

VENT-IN PLUG

VENT-OUT PLUG

### Paint Plugs & Tagrings

- Suitable for 210 Ltrs MS Barrels



Tag Ring



Leak Lock Plug

Paint Plug

Turn Down Plug

### Buttress Thread Plugs / Bottom Seal Plugs

For HDPE Barrels

- Suitable for HDPE Barrels with precision threadings, Prevents leakages



### FM Approved Nylon Plugs & PP Plugs

For MS Barrels.

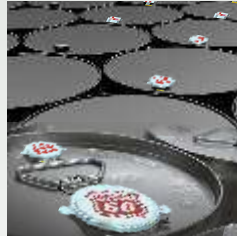
- For packing flammable liquids in MS Barrels for protecting the filled content during fire incident by providing pressure relief





### Plastic & Hand Pressed EZ Plastic Capsels

- Suitable for MS Barrels
- No tools required for crimping
- Easily, efficiently & securely apply by hand pressing over the drum closures
- Effortlessly & conveniently removed by hand
- Tamper proof
- Logo/Branding can be done
- All plastic, no rusting
- Also available plastic capseal with an aluminum ring for crimp-ring



### Metal Capsels

- Suitable for MS / HDPE Drums & Barrels
- Made from prime quality tin plate with 0.30 mm thickness
- Duly varnished, coated, and lined with a chemical resistant lacquer inside
- Tamper proof / security
- Prevents leakage
- Heat cured with PVC gasket
- Rust proof
- Lithography multi colour logo printing for Branding
- No sharp edges



### Crimping (sealing) Tools & Wrenches

For uniform Capsel crimping for

- MS / HDPE barrels
- Prevents leakage & Tampering



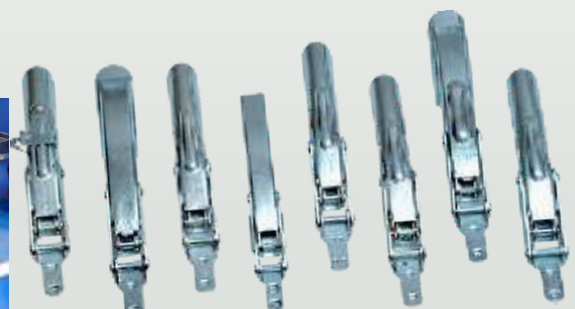
Plug Tightening & Opening Wrench



Pneumatic crimping Tool

### Metal Clamps (lever latches) & Locking Rings.

- Suitable for making (GI & powder coated) Locking rings for MS / HDPE Barrels
- Clamps available in Mild steel and Stainless Steel
- Over 150 types of Clamps (lever latches)



### Tin-Plate Screw Caps Closures

Suitable for 20 Ltrs MS drums/ Tin Container for filling

- Thinners
- Varnish
- Paints
- Inks
- Coatings
- Other Special Products

Light Closuers available in Lacquered Coated also.



### Can Cap Closures

- Suitable for Pails / Small Drums upto 20 Ltrs Capacity
- Tin Containers of 0.5 to 5 Ltrs Capacity



42 mm Pullout Spout



63mm Pull out Spout

### Plastic Products



3/4" Snap-in Flange



57 mm Short Height Plug



3/4" Polypropylene (PP) Plug - Short Length

### Gaskets

- Compatibility with various chemicals/ Food, Lubricants. Gasket type are
- Black Nitrile Gasket
- White EPDM Gasket
- Square PE Gasket (For Plug)
- Round PE Gasket
- Square Poly Irradiated gasket (For Plug)
- Round Poly Irradiated gasket (For Plug)
- Viton Gasket
- Teflon Gasket
- Black EPDM Gasket / White BUNA Gasket



**Dark Brown**

- **Raw Material** : Flange (HR Mild Steel), Plug (CR Mild Steel)
- **Resin Type** : Phenolic / Epoxy
- **Finish/Colour** : **Dark Brown** above chromated zinc
- We can use equivalent lacquer or even the same as used by drum manufacturers on request. Our standard lacquer is KNS-USA.  
**Code no L-15 Dark Brown.**



**Buff Epoxy**

- **Raw Material** : Flange (HR Mild Steel), Plug (CR Mild Steel)
- **Resin Type** : Phenolic / Epoxy
- **Finish/Colour** : **Golden Brown** above chromated zinc
- We can use equivalent lacquer or even the same as used by drum manufacturers on request. Our standard lacquer is of Valspar-USA. **Code no EHD002E**



**Clear Phenolic**

- **Raw Material** : Flange (HR Mild Steel), Plug (CR Mild Steel)
- **Resin Type** : 100 % Phenolic
- **Finish/Colour** : **Clear Phenolic** above chromated zinc
- We can use equivalent lacquer or even the same as used by drum manufacturers on request. Our standard lacquer is **KNS-USA**.  
**Code no L-1 Clear Phenolic.**



**Tan Phenolic (BPA FREE)**

- **Raw Material** : Flange (HR Mild Steel), Plug (CR Mild Steel)
- **Resin Type** : 100 % Phenolic
- **Finish/Colour** : **Tan Phenolic** above chromated zinc
- We can use equivalent lacquer or even the same as used by drum manufacturers on request. Our standard lacquer is of KNS-USA.  
**Code no L-5X Tan Phenolic.**



**Olive Drab (BPA FREE)**

- **Raw Material** : Flange (HR Mild Steel), Plug (CR Mild Steel)
- **Resin Type** : 100 % Phenolic
- **Finish/Colour** : **Green** above chromated zinc.
- We can use equivalent lacquer or even the same as used by drum manufacturers on request. Our standard lacquer is of **KNS-USA**.  
**Code L-5X Olive Drab.**



**Golden Brown**

- **Raw Material** : Flange (HR Mild Steel), Plug (CR Mild Steel)
- **Resin Type** : Epoxy Phenolic
- **Finish/Colour** : **Golden Brown** above chromated zinc
- We can use equivalent lacquer or even the same as used by drum manufacturers on request. Our standard lacquer is **PPG-India**.  
**Code no PPG 2088-334-A**



**Buff**

- **Raw Material** : Flange (HR Mild Steel), Plug (CR Mild Steel)
- **Resin Type** : Epoxy Phenolic
- **Finish/Colour** : **Buff** above chromated zinc
- We can use equivalent lacquer or even the same as used by drum manufacturers on request. Our standard lacquer is of **Unichem-USA**.  
**Code no RESCO 500-L.**



**Brown**

- **Raw Material** : Flange (HR Mild Steel), Plug (CR Mild Steel)
- **Resin Type** : Epoxy Phenolic
- **Finish/Colour** : **Brown** above chromated zinc
- We can use equivalent lacquer or even the same as used by drum manufacturers on request. Our standard lacquer is **Axalta-Austria**.  
**Code no R-78433.**





**Olive Green (Phenolic)**

- **Raw Material** : Flange (HR Mild Steel), Plug (CR Mild Steel)
- **Resin Type** : Phenolic
- **Finish/Colour** : **Olive Green** above chromated zinc
- We can use equivalent lacquer or even the same as used by drum manufacturers on request. Our standard lacquer is **Unichem-USA**  
**Code no Resco-800L.**



**Grey (Phenolic)**

- **Raw Material** : Flange (HR Mild Steel), Plug (CR Mild Steel)
- **Resin Type** : Epoxy Phenolic
- **Finish/Colour** : **Grey** above chromated zinc
- We can use equivalent lacquer or even the same as used by drum manufacturers on request. Our standard lacquer is **Valspar -India.**  
**Code no TM2409** - Local



**Dark Brown (BPA FREE)**

- **Raw Material** : Flange (HR Mild Steel), Plug (CR Mild Steel)
- **Resin Type** : BPA FREE [ Phenolic]
- **Finish/Colour** : **Dark Brown** above chromated zinc
- We can use equivalent lacquer or even the same as used by drum manufacturers on request. Our standard lacquer is **Aalterpaint-Belgium.** **Code no 22228.**



**Green (BPA FREE)**

- **Raw Material** : Flange (HR Mild Steel), Plug (CR Mild Steel)
- **Resin Type** : BPA FREE [Phenolic]
- **Finish/Colour** : **Green** above chromated zinc
- We can use equivalent lacquer or even the same as used by drum manufacturers on request. Our standard lacquer is **TIB**  
**Code no 203131.**





**Clear Gold (BPA FREE)**

- **Raw Material** : Flange (HR Mild Steel), Plug (CR Mild Steel)
- **Resin Type** : BPA FREE [Phenolic]
- **Finish/Colour** : **Clear Gold** above chromated zinc
- We can use equivalent lacquer or even the same as used by drum manufacturers on request. Our standard lacquer is **Axalta- Austria**.  
**Code no R78007.**



## HYBRID PLUGS

**An Innovation In Drum Closures - Patented Hybrid Plug**

It is a combination of plug & capseal produced from one single blank.  
It's impossible to adulterate contents of steel drum in transit with use of HYBRID PLUGS.



**Benefit to drum filler/ End user**

- 100% pilfer proof in transit.
- No inferior or spurious product adulteration possible in transit.
- Protects brand image.
- Safeguard plug from getting untorqued during transit.
- Plastic cap-seal / metal cap-seal can be put on hybrid plug to prevent dust, dirt, accumulation of Rainwater, not to expose to sunlight & to prevent bird droppings etc. It is possible to put your company name & Logo for branding purpose.
- Existing plug wrench and cap sealing tool is to be used for screwing and unscrewing plug and sealing of cap seal portion of hybrid plugs.
- Already approved by major lubricants & chemical producing companies in india
- Hybrid plug has all the features of regular plug as well as additional features to
- Prevent adulteration in transit.





## SOTD

(SINGLE OPERATION TANDEM DIE WITH  
AUTO FLANGE FEED & AUTO HEAD FEED)

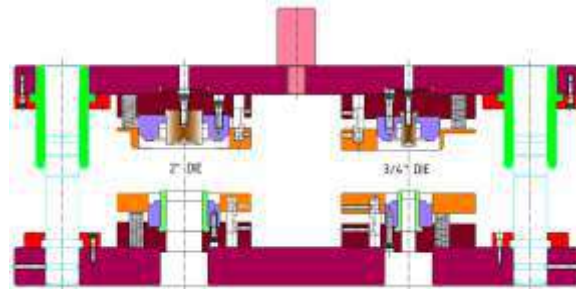
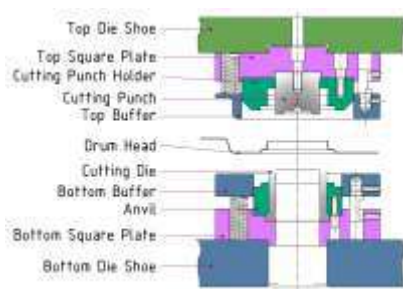
- Fixes both flanges on drum head in one press stroke
- Only one 100T press required
- High speed insertion, 1200 Flange insertion / hr
- Easy to Maintain, save space
- Press runs continuous strokes
- Fully Automatic, No skilled Manpower
- Lower maintenance cost
- Complete Technical Support



## Tandem Double Shot Die

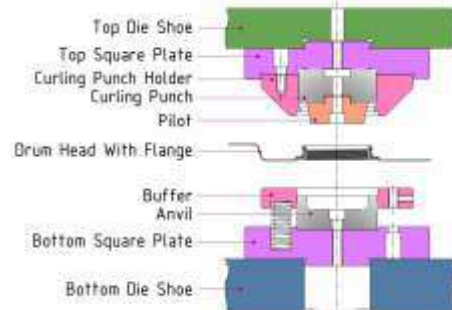
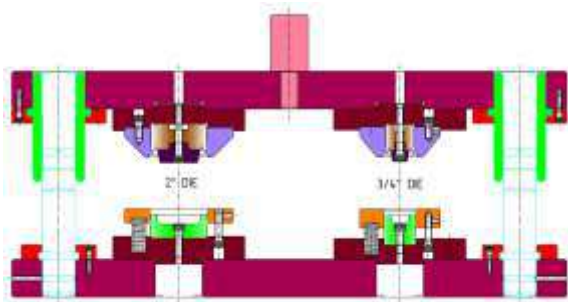
### 1st Operation

First operation die forms pocket in head for flange insertion.



### 2nd Operation

Second operation die inserts flange into pocket formed in first operation to give a leakproof assembly.



## FULLY AUTOMATIC VERTICAL (SIDE) FLANGE INSERTION SYSTEM

Fully automatic Compact Horizontal  
Hydraulic Horn press with special dieset

Fixes 2" Flange on Drum Belly in One Single  
Stroke, Unique Design, 1st in the world

Saves manpower, space & power

Can be fitted to Vertical forming line in  
both online and offline modes

Machine speed - minimum 720 drums/hour

Fits in the existing setup line



## SPECIAL DIES

Combination Dies:  
2"x2" / 2"x2"x3/4" / Center Dies

Tailor Made Dies as per Drum  
Producers Requirements

Dies for Plastic closures for  
Pails / Small Drums

1st & 2nd Operation standard  
Tandem Die

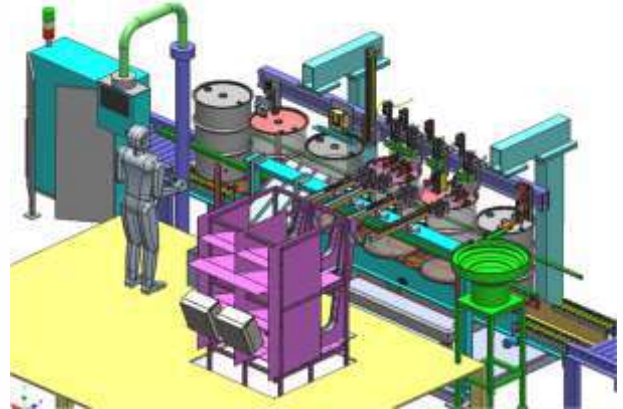
## 2nd OPERATION

TANDEM DIE WITH AUTO FLANGE &  
AUTO HEAD FEED

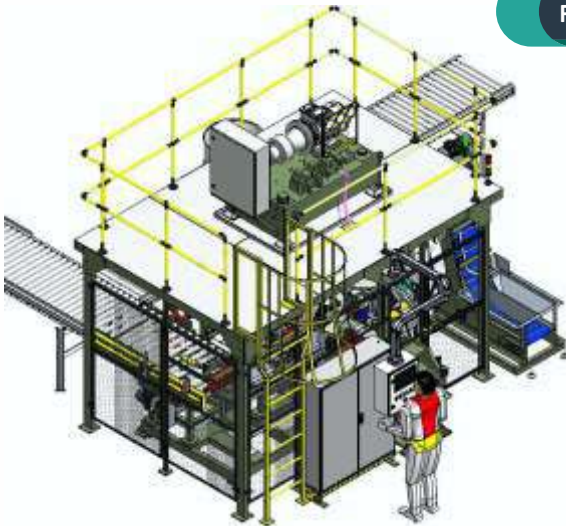
Flange insertion 720 drums / hr

### AUTOMATIC PLUG (BUNG) FITTING SYSTEM

- A unique transfer mechanism indexes drums rapidly and accurately
- Automatic extraction and separation of Paint Plugs (Bung).
- Nitrogen / Helium injection system
- Product changeover with click of button
- Smart Plug feeder
- Nylon Bungs and  $\frac{3}{4}$ " Cap seal can be fitted
- High productivity of 720 Drums / Hour
- Minimal setup change
- System can be designed based on customers requirement & layout.



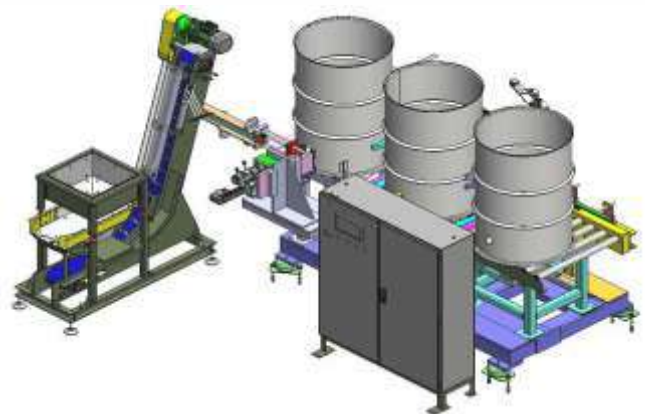
### FULLY AUTOMATIC VERTICAL (SIDE) FLANGE & PLUG (BUNG) FITTING SYSTEM



- A unique transfer mechanism indexes drum shells rapidly and accurately
- Integration with a vertical forming line, operating in both online and offline modes.
- Unique tooling to insert Flange on Drum shell in single shot.
- Servo controlled Plug (Bung) Torquing.
- Unique Flange and Plug (Bung) Feeding system.
- Reliable Weld joint detection and positioning system
- High productivity of 720 Drums / Hour
- Can accommodate various shell thickness (0.8 to 1.2mm)
- Provision for Leakage checking after Plug (Bung) fitment.
- System can be designed based on customers requirement & layout.

### AUTOMATIC SIDE PLUG (BUNG) FITTING SYSTEM

- This system is suitable for customers having Flanges inserted during 1st operation. These pre-assembled drum shells are automatically fed into the system via an infeed conveyor.
- A unique transfer mechanism indexes drum shells rapidly and accurately.
- Automated Plug (Bung) loading and Torquing.
- Provision for Leakage checking after Plug (Bung) fitment.
- System can be designed based on customers requirement & layout.





## CORPORATE HEAD OFFICE

📍 Technocraft House, A-25, Road No.3, M.I.D.C. Industrial Estate, Andheri (East), Mumbai - 400 093, MH, INDIA

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## Subsidiaries Companies

### Overseas

- 🇺🇸 AAIT/ Technocraft Scaffold Distribution-Houston, [USA]
- 🇺🇸 Technosoft Engineering Inc. [USA]
- 🇺🇸 Technosoft Services Inc. [USA]
- 🇨🇦 Technosoft Integrated Solutions Inc. [Canada]
- 🇧🇷 AAIT-Technocraft Brasil Ltd [Brazil]
- 🇬🇧 Technocraft International Ltd- Manchester, [UK]
- 🇬🇧 Technosoft Engineering UK Ltd
- 🇩🇰 Technosoft ApS (Denmark)
- 🇵🇱 Technocraft Trading Spolka Z.O.O - Lodz, [Poland]
- 🇩🇪 Technosoft GMBH [Germany]
- 🇦🇪 Highmark International Trading, Ajman [UAE]
- 🇨🇳 Anhui Reliable Steel Technology Co.Ltd- Anhui Province, [China]
- 🇳🇿 Technocraft NZ Ltd - Auckland, [New Zealand]

### India

- Technosoft Engineering Projects Ltd
- Techno Defence Pvt.Ltd
- Technocraft Textiles Ltd
- Technocraft Fashions Ltd
- Technocraft Speciality Yarns Ltd
- Technocraft Formworks Pvt Ltd
- Technocraft Extrusion Pvt Ltd
- Shivale Infraproducts Pvt.Ltd
- BMS Industries Pvt.Ltd

### Distribution Centers in USA & Europe

- 🇺🇸 Houston TX & Chicago IL, [USA]
- 🇵🇱 Lodz, Poland

- 🇩🇪 Kalletal-Kalldorf (Near Herford), Germany
- 🇬🇧 Manchester, U.K.

